## In The Matter Of:

Illinois Environmental Protection Agency Public Hearing for Midwest Generation

Waukegan Generationg Station NPDES Permit July 31, 2013

Marzullo Reporting Agency 345 North LaSalle, 1605 Chicago, IL 60654 (312) 321-9365

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Min-U-Script® with Word Index

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2	PUBLIC HEARING FOR MIDWEST GENERATION
3	WAUKEGAN GENERATING STATION NPDES PERMIT
4	July 31st, 2013
5	6:30 a.m.
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8	The Report of Proceedings had in the
9	hearing of the above-entitled cause before HEARING OFFICER
10	DEAN STUDER, taken before PAMELA A. MARZULLO, a Certified
11	Shorthand Reporter and Notary Public in and for the County
12	of Cook and State of Illinois, at 95 Jack Benny Drive,
13	Waukegan, Illinois, on July 31st, 2013, at the hour of
14	approximately 6:30 a.m.
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1	ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
2	MR. DEAN STUDER, Hearing Officer
3	MR. JAIME RABINS, Permit Writer
4	MS. DEBORAH J. WILLIAMS, Assistant Counsel
5 MR. LYNN	MR. LYNN E. DUNAWAY, P.G., Environmental Specialist Groundwater Section, Bureau of
6	Water
7	MS. BARB LIEBEROFF, Community Relations Coordinator, Office of Community relations
8	MR. DARIN LeCRONE, P.E., Manager, Industrial Unit, Permit
9	Section, Division of Water MR. SCOTT A. TWAIT, Environmental Protection Engineer
10 MR. SCOT	Standards section, Bureau of Water
11	MR. RICARDO NG, Interpreter
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HEARING OFFICER STUDER: Good evening. Before 1 2 we start, I wish to point out we have a Spanish 3 interpreter here this evening. If you desire to use the Spanish interpreter, please make your way over 4 to Ricardo. 5 Ricardo works for the Illinois EPA and the 6 7 Chicago suburban field office in Des Plaines. 8 Ricardo, I'm not going to stop, or I'm going to stop 9 at this point, and I'm going to ask you to interpret those few sentences into Spanish. 10 If you would please stand up and do so. 11 (WHEREUPON, the proceedings were 12 translated in Spanish." 13 HEARING OFFICER STUDER: Thank you. We'll go 14 15 ahead and go on the record, if we've not already 16 done so. Good evening. My name is Dean Studer, and 17 18 I'm the Hearing Officer for the Illinois 19 Environmental Protection Agency. On behalf of 20 Director Lisa Bonnett, I welcome you to tonight's 21 hearing. My purpose tonight is to insure that this 22 23 proceeding runs efficiently and according to rules. 24 At this point, I need to point out two errors that

the Illinois EPA has discovered in the hearing
notice for this proceeding.

The first is that the NPDES permit numbers given in the hearing notice are incorrect in two places. The hearing notice incorrectly gives two different NPDES permit numbers. Obviously only one of these is correct.

The correct NPDES permit number for this facility is IL0002259. Again, the correct NPDES number is IL0002259.

Secondly, the hearing notice erroneously indicates that an anti-degradation analysis for the permit renewal for this facility is available.

There is no anti-degradation analysis for the renewal of this permit.

Illinois Pollution Control Board
Regulations at 35 Illinois Administrative Code
302.105 requires such an analysis when there is an increase in loading of pollutants to a receiving water.

No increases in pollutant loading are expected at this facility, so no anti-degradation analysis for the renewal action is required and none has been performed.

When the notice was prepared, the template used from another facility, and apparently there was some information that was contained in that template. As a result, some erroneous information was left in the final hearing notice. Illinois EPA regrets these errors and apologizes for any confusion or inconvenience that they may have caused.

Corrected hearing notices have been prepared. They are available on the back registration table. The correct nearing notice has also been posted on the Illinois EPA web page for this proceeding.

UNKOWN SPEAKER: Will you entertain a question concerning the anti-degradation rates?

HEARING OFFICER STUDER: Yes, we will entertain questions on that, yep. We will do that in the process of this hearing, and we'll do that when I open the floor for public comments.

If you have completed a registration card, and completed on the card that you desire to speak, your name will be called to come forward, and you can ask the question at that time.

This is an informational hearing before

the Illinois EPA in the matter of renewal of
national pollutant discharge elimination system
permit for Midwest Generation Waukegan Generation
Station.

The Illinois EPA has made a preliminary determination that this project meets the requirements for obtaining a permit and has prepared a draft permit for review. Authority for the Illinois EPA to reissue this permit is contained in Section 39 of the Illinois Environmental Protection Act, that's 415 Illinois Compiled Statute 5/39.

In pertinent part, this section reads, "It shall be the duty of the Agency to issue such a permit upon proof by the applicant that the facility, equipment, vehicle, vessel or aircraft will not cause a violation of this act or regulations hereunder."

The decision by the Agency in this matter will be based upon the technical merits of the application, as it relates to compliance with this statute and regulations promulgated under it.

The Agency decision will not be based on how many people desire for the permit to be issued, or how many people desire for the permit not to be

issued, but rather on compliance with the law and regulation.

Issues relevant to tonight's hearing include compliance with the requirements of the Clean Water Act and the rules set forth in 35 Illinois Administrative Code Subtitle C, potential impacts to the receiving waters from the discharge and the water quality in the receiving waters.

I also wish to point out that while this is a power station, issues dealing with air pollution and emission are not the subject of this hearing.

Issues involving air pollution, emissions control and respiratory diseases will not be discussed at the hearing this evening, unless they have a direct bearing on the NPDES permit on wastewater control equipment, or some other aspect associated with water pollution control.

If the subject matter of your comments begin to direct into these areas, I may interrupt you. This is a water permit hearing. This is not an air permit hearing, and let's try and keep the issues pertaining to the NPDES permit.

The Illinois EPA is holding this hearing

for the purpose of accepting comments from the 1 2 public on this draft water discharge permit. 3 public hearing is being held under the provisions of Illinois EPA's procedures for permit and closure 4 plan hearing, which can be found in 35 Illinois 5 Administrative Code, Part 166, Subpart A; and in 6 7 accordance with the requirements of the Illinois Pollution Control Board and NPDES regulations, and 8 9 those are found at 35 Illinois Administrative Code 309.115 through 309.119. 10 11 I want to make sure before I go any further, can you all hear me in the back? 12 Copies of the regulations that I just 13 cited, those are available at the Illinois Pollution 14 Control Board website at www.ipcb.state.il.us; or if 15 you do not have easy access to the web, you can 16 contact me, and I will get a copy for you. 17 18 An informational hearing means exactly This is strictly an informational hearing. 19 that. 20 It is an opportunity for you to provide information 21 to the Illinois EPA concerning the permit. This is not a contested case hearing. 22 I would like to explain tonight how this 23 24 hearing is going to proceed. First, I will have the

Illinois EPA panel introduce themselves and provide a sentence or two regarding their involvement in the permit review process.

This will be followed by further instructions as to how statements and comments will be taken during this hearing, and as to appropriate conduct during this hearing.

Following these additional instructions, I will allow the public to speak, starting with the permit applicant making a brief opening statement.

If you have not signed the registration card at this point, please see Barb Lieberoff at the registration table, and she will provide you with one. You may indicate on the card that you would like to make oral comments tonight.

Everyone completing a card legibly, or providing their business card to Ms. Lieberoff at the registration table, or for those submitting written comments during the comment period, they will all be notified when the Illinois EPA reaches a final decision in this matter.

A responsiveness summary will be made available at that time. In the responsiveness summary, the Illinois EPA will respond to all

relevant and significant issues that were raised at this hearing, or were submitted to me prior to the close of the comment period.

The comment period in this matter will close on August 30th, 2013. I will accept written comments, as long as they are post marked by August 30th.

Illinois EPA is committed to resolving outstanding issues and reaching a final decision in this matter in an expeditious manner. However, the actual decision date in this matter will depend on a number of factors, including the number of comments received, the substantive content of those comments, staffing considerations, as well as other factors.

During tonight's hearing, and during the comment period, relevant comments, documents and data will also be placed into the hearing record as exhibits.

Please send all written documents or data to my attention at Dean Studer, and that last name is spelled s-t-u-d-e-r, Hearing Officer, regarding Midwest Generation/Waukegan NPDES Illinois EPA, 1021 North Grand Avenue East, P.O. Box 19276, Springfield, Illinois, 62794-9276.

This address is also listed on the public 1 2 notice for this hearing. I believe hearing notices 3 are also available at the registration table. You'll find the address and contact information also 4 5 on that. 6 I remind everyone to please reference 7 Midwest Generation/Waukegan NPDES, or the correct NPDES permit number, which is IL0002259 on the 8 9 comments, and that way I can insure that these will become part of this hearing record. 10 In addition, E-mail comments will be 11 accepted if sent to epa.publichearingcom. 12 That is e-p-a dot p-u-b-l-i-c h-e-a-r-i-n-g c-o-m 13 @illinois.gov. All E-mail comments should contain 14 15 the words "Midwest Generation/Waukegan NPDES permit, or "IL0002259" in the subject line. 16 will also help to insure your comments become part 17 18 of this particular hearing record. 19 Please make sure that those words in the 20 subject line are spelled correctly, as E-mails are 21 electronically sorted and distributed and may not 22 make it into the record, if the words on the subject 23 line -- in the subject line, excuse me, are 24 misspelled.

When our E-mail arrives, the system should 1 2 send you an automated reply, if the E-mail was 3 received before the comment period ends, and the E-mail has been properly sorted and distributed. 4 Please note that the server can become 5 6 quite busy in the minutes before the record closes, 7 so you may want to take this into account, if you are submitting E-mail comments, as electronic 8 9 comments received at or after the stroke of midnight, as the date changes from August 30th to 10 11 August 31, will not be considered timely filed. I will now ask the Illinois EPA panel to 12 introduce themselves, and provide a sentence or two 13 regarding their role in the permit review process. 14 15 MR. TWAIT: My name is Scott Twait. I work for Water Quality Standards Section. 16 MR. DUNAWAY: My name is Lynn Dunaway. I work 17 18 in the Ground Water Section at IEPA. MR. RABINS: 19 I'm Jim Rabbins. I'm the permit 20 I review the application and draft the writer. 21 permit. 22 I'm Debby Williams from the MS. WILLIAMS: 23 Division of Legal Counsel, and I advise the permit 24 writers on the legal issues that come up.

MR. LeCRONE: And I'm Darin LeCrone. I'm the Industrial Unit Manager in the Water Pollution Control Permit Section.

HEARING OFFICER STUDER: I'm going to ask the hearing panel members when you speak, that you do project your voice out. I do want to make sure everyone in the room can hear you. So, if you speak softly, when you are responding to an issue, I may interrupt you and ask you to speak up.

While the issues raised tonight may, indeed, be heart-felt concerns to many of us in attendance, applause is not appropriate during the course of this hearing. On a similar note, booing, hissing and jeering are also not appropriate and will not be allowed during this hearing.

Secondly, statements made tonight are to relate to the issues involved with the reissuance of this water discharge permit. Specifically statements and comments that are of a personal nature, or reflect on the character or motive of a person or group of people, are not appropriate in this hearing.

If statements or comments begin to drift into this area, I may interrupt the person speaking

and ask that they proceed to the next relevant issue. As Hearing Officer, I do intend to treat everyone here tonight in a respectful and professional manner. I ask that the public and members of the hearing panel do the same.

If the conduct of a person attending this hearing should become unruly, I am authorized to adjourn this hearing, should the actions warrant. In such a case, the Illinois EPA will still accept written comments through the close of the comment period.

Since we have a limited time in which to conduct this hearing, Illinois EPA staff members will be responding to issues primarily for clarification purposes. We are here tonight primarily to listen to environmental issues related to the NPDES permit.

You may disagree with or object to some of the statements and comments made tonight, but this is a public hearing, and everyone has a right to express their comments on this matter.

Again, written comments are given the same consideration as oral comments received during this hearing and may be submitted to Illinois EPA at any

time within the public comment period, which ends on August 30th, 2013.

Although we will continue to accept comments through that date, tonight is the only time that we will accept oral comments. Any person who wishes to make an oral comment may do so, as long as the statements are relevant to the issues at hand and time allowed.

If you have lengthy comments, please consider giving only a summary of those comments during this hearing, and then you may submit comments in their entirety to me in writing before the close of the comment period, and I will insure they are included in the hearing record as an exhibit.

Please keep your comments relevant to the issues regarding the NPDES permit. If your comments fall outside the scope of this hearing, I may ask that you proceed to your next issue.

For the purpose of allowing everyone to have a chance to comment, and to insure that we conduct this hearing in a timely fashion, I will impose a time limit of four minutes per speaker.

After everyone has indicated -- that has

indicated a desire to speak on the hearing card, after they have been afforded that opportunity, and provided time still permits, I may allow those who initially did not desire to speak to do so.

If time still permits, I may then allow those who initially ran out of time to speak again. In the event that we cannot accommodate everyone who wishes to make oral comments this evening, you are asked to submit your comments to us in writing.

Again, written comments are given the same weight as comments made orally at this hearing.

I stress that we want to avoid unnecessary repetition. Once a point is made, it makes no difference if the point is made once or whether it is made 99 times. It will be considered, and it will be reflected only once in the responsiveness summary.

The final decision of the Illinois EPA will not be based on how many people support or oppose this permit, but rather upon the application and the supporting documents indicating the facility will comply with applicable laws, regulations and requirements.

We have a court reporter here who is

taking a record of these proceedings for the purpose 1 2 of us putting together our administrative record. 3 Therefore, for her benefit, please keep the general background noise in the room to a minimum, so that 4 5 she can hear everything that is said. Illinois EPA will post the transcript for 6 7 this hearing on our web page in the same general place where the hearing notice, draft permit and 8 9 other documents in this matter have been posted. It is my desire to have this posted in 10 11 about a week to -- excuse me, in two to two-and-a-half weeks following the close of the 12 hearing; however, the actual posting date will 13 depend on a number of factors, including primarily 14 15 when I get the transcript back from the court 16 reporter. When it is your turn to speak, I will call 17 18 your name. Please come forward, and if you would 19 stand right in the center and just speak to the 20 hearing panel here, I ask that you state your name, 21 for the record, along with any governmental body, 22 organization or association that you are 23 representing. 24 If you are not representing a governmental

body or organization or association, you may simply 1 indicate that you are either a concerned citizen or 2 a member of the public. For the benefit of the 3 court reporter, I ask that you spell your last name. 4 If there are alternate spellings of your first name, 5 you may also spell your first name. 6 7 Once you spell your name, I will start 8 timing you, and you will have four minutes to 9 complete your comments. I ask that while you are speaking, that you direct your attention to the 10 hearing panel and to the court reporter, to insure 11

Prolong dialogue with members of the hearing panel, or with others here in attendance this evening, will not be permitted. Comments directed to members of the audience are also not allowed.

that an accurate record of your comments can be

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made.

Again, I remind everyone that the focus of this hearing is the environmental issues associated with the NPDES permit.

Are there any questions regarding how I will be conducting this hearing this evening? Let the record indicate that no one raised their hand.

I will now go ahead and open the hearing for comments. The first person is Mark Nagel. If he would come forward to the front and stand in the middle.

If you would state your name, any organization that you are representing, and spell your last name for the court reporter, please.

UNKOWN SPEAKER: Thank you, Hearing Officer

Studer. My name is Mark Nagel, M-a-r-k N-a-g-e-l.

I'm Director of Waukegan Generating Station operated
by Midwest Generation.

I appreciate the opportunity and comments at this hearing. Our company will continue to provide written comments on provisions of the Waukegan NPDES permit through the ongoing review process being managed by the Illinois EPA.

On behalf of my 120 colleagues at Waukegan station, and the 670 men and women who work at all the Midwest Generation's facilities in Illinois, I first and foremost want to state for the public record that we have an ironclad commitment to environmental responsibilities and compliance in the way we operate our plants.

NPDES permits focus on the use and

management of water at our site, including protection of the waterways from which we withdraw water to cool our generating units, and the management of the ponds that are used for temporary storage of coal ash produced by the combustion process that generates electricity.

Water management is a significant around-the-clock task at Waukegan station, and we have a record of pro-active and preventive actions that demonstrate how seriously we take this area of environmental compliance.

We are required to monitor for a long list of parameters as part of the NPDES permit renewal process. This data is provided to the Illinois EPA for review. For most of our water discharges, these parameters are not found to be present at all.

The vast majority of water discharge by Waukegan Station is cooling water, which does not come into contact with anything within the station, except the outside of stainless steel tubes for cooling purposes only.

We have a wastewater treatment plant, which is an integral part of plant operations and treats wastewater before it's discharged into Lake

Michigan, in order to comply with all permit limits.

Our bottom ash ponds have thick impermeable liners, and we have shown through monitoring and data collection that they are not leaking. A few years after we acquired Waukegan Station in 1999, we undertook a voluntary preventive project to install new pond liners. These ponds are not final ash disposal sites.

Bottom ash is removed from that every year, in accordance with permits issued by the state and sent for beneficial reuse. Waukegan's fly ash is handled dry in an instructive way for appropriate disposal.

Mercury is captured by our air pollution control equipment and collected with the fly ash. In fact, Waukegan Station was one of the first power plants in the country to install controls for mercury emissions back in 2008. The Mercury and fly ash do not come into contact with any water and are not part of the wastewater discharge.

Furthermore, no mercury has been found in wastewater discharge or in the monitoring wells surrounding those ponds. We take compliance with regulations for our water use and management very

seriously and have operated under NPDES permit regulations since beginning operations here in Waukegan.

The current regulations are detailed and demanding, and the requirements get tougher under the draft permit that's the subject of tonight's hearing.

We are here tonight to listen respectfully to public comment, and we will continue our work with the Agency on the issuance of the renewed NPDES permits that are both protective of the environment, and fair and reasonable for our operations.

A significant number of our employees and their families live in this immediate area. They take pride in our operations, our outstanding safety record and exemplary environmental stewardship. On their behalf, we will continue working to be a good neighbor, and insure that environmental compliance is a top priority every hour of every day. Thank you.

HEARING OFFICER STUDER: Thank you, Mr. Nagel.

I received a request that rather than have the speaker have his back toward you, that it would be easier for those in the audience to hear if perhaps

they face sideways. So, I think that is probably a much better idea, and I appreciate whoever made that suggestion. Thank you, and we will go accordingly.

If you are out there, and you cannot hear a speaker, please raise your hand, because I do want to make sure that everyone in the room has an opportunity to hear what was said.

Likewise, if you cannot hear a response, please raise your hand and let me know, so that we can have the person that is speaking speak up.

Again, I want to stress I do want everyone in the room to hear what's going on.

The first person that I have is Curt Volkmann. Come forward and face the side. That's fine. That works good. I appreciate that.

MR. VOLKMANN: My name is Curt, C-u-r-t, Volkmann. V, as in Victor, o-l-k-m-a-n-n, and I'm resident of Lake Forest, which is a community just south of Waukegan.

I'm here tonight to urge you to strengthen the draft water pollution permit for the coal plant so that there are proper paths or impacts that can't harm me, my family, my community and our environment.

I know you're going to hear from a lot of people tonight, but I hope to leave you remembering three number: 8, 6-and-a-half million, and 99.

I'll explain in a minute.

As I said, I am a resident of Lake Forest where we draw our drinking water from two intake pipes that are approximately eight miles south of the coal plant.

With the frequent north-to-south flow of the water on the west side of Lake Michigan, there's a strong likelihood that any contaminants that come from the coal ash ponds can find their way into our drinking water supply.

Lake Forest isn't alone. Six-and-a-half million Illinois residents, that's more than half of the state's population, get their drinking water from Lake Michigan.

Furthermore, as you may know, the retention time, which is the time it takes for a contaminant to naturally cycle out of Lake Michigan, is 99 years. This means that any mercury or arsenic, or any other contaminant that might come from the coal ash that enters the water today, will be there for my great, great grand kids to deal

1 with. The Great Lakes and their various eco 2 3 systems are under tremendous stress, from warming temperatures, invasive species and a wide variety of 4 5 pollutants. We urgently need all relevant state and 6 federal agencies to step up their game to preserve 7 and protect these precious natural resources. Specifically, I request tonight for the 8 9 Illinois EPA to strengthen this permit in four ways: Number one, strengthen the coal ash pollution limits 10 11 that the U.S. EPA has already determined are inadequate. 12 This plant should be required to use the 13 best technology available to dry handle the waste 14 15 from the fly and bottom ash ponds and to use 16

best technology available to dry handle the waste from the fly and bottom ash ponds and to use evaporation treatment for scrubber sledge waste.

These zero liquid discharge technologies will eliminate the release of most of the highly-contaminated wastewater.

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Number two, please include measures to address the ground water contamination that exists near the plant.

Number three, please review the Lake
Michigan Thermal Water Quality Standards to insure

the coal plant is not harming water quality and 1 2 aquatic life. And number four, please take steps to 3 minimize the fish kills from the plant's intake 4 pipes. 5 To repeat, we in Lake Forest get our 6 drinking water from intake pipes eight miles south 7 of this coal plant. Six-and-a-half million other 8 residents in Illinois get their drinking water from 9 Lake Michigan; and whatever gets dumped into Lake Michigan today, will be there for 99 years. 10 11 Thanks in advance for strengthening this 12 permit. 13 HEARING OFFICER STUDER: Thank you. Mildred Leonard. 14 15 MS. LEONARD: Hi. My name is Mildred Leonard, and I'm not with an organization. 16 I live in Waukegan's. 17 18 HEARING OFFICER STUDER: Can I ask you to stand 19 over here? That way the court reporter can see you 20 while you are speaking as well. If you would spell 21 your last name also. 22 MS. LEONARD: Leonard, L-e-o-n-a-r-d, and I'm 23 not with any organization. I live in Waukegan, and

I have some comments and then some questions.

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1 HEARING OFFICER STUDER: Okay.

MS. LEONARD: Or a comment and question. I'm looking specifically at the parameters of I would say chemicals arsenic, barium, cadmium, copper cyanide, lead, silver and zinc that are in this discharge, and so I'm concerned.

I'm not a chemist or an attorney. I am concerned how these standards decide upon, how this was considered to be safe.

Sometimes we find things later on that science changes and we find some of the things, for example, we had many problems with mercury, nitrogen, asbestos in this area, how the science as to this is supposed to be safe.

In addition to this, saying that this is the existing science, and I'm not sure how this will be determined, when I hear that congress intends to cut fund to get EPA, how do you intend to monitor and enforce these standards, if your budget is reduced? Thank you.

MR. TWAIT: I can talk a little bit where the water quality standards come from. The U.S. EPA produces national criteria documents, and they talk about the toxicity of these parameters; and U.S. EPA

or Illinois EPA has adopted some of those, and we 1 take a look at those in a triennial review to see if 2 3 they need to be updated. MS. LEONARD: And the question was: How do you 4 intend to monitor and enforce the possibility of 5 6 having a reduced budget? 7 MR. TWAIT: The monitoring is done by Midwest Generation as part of their permit, and our 8 9 compliance people look at that data. HEARING OFFICER STUDER: Thank you, Ms Leonard. 10 Jim Bland. 11 I wanted to talk a little bit about 12 MR. BLAND: 13 Lake Michigan before we talk explicitly about the permit. 14 15 HEARING OFFICER STUDER: Could you state your 16 name and spell your last name? My name is Jim Bland, B-l-a-n-d, 17 MR. BLAND: 18 and I'm a private citizen. The history of Lake Michigan is one of 19 20 large numbers of environmental and ecological 21 upsets. 22 UNKOWN SPEAKER: Speak up. 23 MR. BLAND: I'll do better. The whole history 24 of the lake is one of a lot of environmental upsets

and disruptions. Right now, as you take a look at the near-shore fund that exists, you have reductions in the perch fund, reductions in the alewives, you have dicoria, which is mid-lake and short-lake and mid-lake, shallow-lake species of micro crustation.

You have alewives that are being depleted. All in all, the lake, itself, is being changed in a very, very dramatic way. That being the case, one of the things that we notice with the plan there is no provisions for doing modifications and BAT technology of entrainment and impingement.

A Chicago Tribune article identifies

5.2 million fish that are entrained at this specific plant; and if I might, I would like to read something, if I could. What I'm reading from is a study that was done by Canadian researchers across the entirety of the Great Lakes.

According to Kelso and Milburn, the Great Lakes Bioliminology Laboratory, the number of fish entrained and impinged annually in the Great Lakes staggers the imagination, 1.2 billion and 98 billion respectively, yet the implications of these direct losses to the fish are rather obscure.

What is also strange to us is that these

unregulated previously-unreported losses have only recently been recognized and acted upon by those charged with safeguarding the resources of the Great Lakes.

That is a quote from 1979. Okay? We're here now 30 years later and are looking at numbers 5.2 million fish that are entrained and impinged; and according to the language of the permit, the language talks about entrainment and impingement studies, if they are available.

Something is seriously wrong if there are not impingement and entrainment studies at this site a long time ago, a long time ago.

Second, there are notifications, and as I have taken a look back on that information, the thermal requirements for this plant go out about 1,000 feet. That means past that point in time, there are specific Centigrade numbers and Fahrenheit numbers that are not to be exceeded past that point.

Argonne Laboratory's study of this site indicated that the influences from the heat from the discharge go out thousands of feet past that.

Identifying the impact of that is going to be very, very tough. Knowing and understanding how that

might influence this near-shore environment is a very difficult biological study, very difficult.

There are near-shore folks that are studying the issue. Illinois Natural History Survey is studying perch population all up and down the shoreline and recently ought to be consulted in terms of oversight of this particular permit.

Relative to what types of impacts that might initiate, if you take a look at perch, perch are, which are one of the prime near-shore species, perch spawning will be susceptible to photo period and to temperature.

If you have high-heat discharges coming from the plant, one of the types of changes that you can get is a false spawning. It means perch can spawn earlier than they would normally, and perch are a species where the larva go back out into the center part of the lake and then they come back to the near shore.

If you send them out early, then the forage that should be there may not be. You're talking about very, very subtle things; and if we can take a look at the thermal sorts of discharges, the plant has not been held to things that are

already until their plan. 1 I wanted to ask a question about 2 3 anti-degradation. There is IEPA -- first of all, I would like to ask what's involved in the 4 anti-degradation study? 5 MR. TWAIT: An anti-degradation, when we have a 6 7 permittee that wants to increase their discharge, or increase the pollutants in their discharge, they 8 9 have look at what type of parameters they are going to be discharging and quantify the loads. 10 11 They need to do an alternatives analysis, and they need to look at what alternatives are 12 13 available. They need to quantify the receiving 14 stream. 15 MR. BLAND: Can I respond to your comments? That really is helpful to me right now. 16 respond to it? 17 18 MR. TWAIT: Sure. 19 MR. BLAND: The idea that they have not 20 increased the load, the bottom line is you don't 21 know what the load is. They haven't been busy 22 measuring it and monitoring it. 23 The new permit asks for all of those sorts 24 of parameters to be incorporated, and what we would

ask of you is that you do an anti-degradation analysis of this particular plant in regards to that. Thanks.

The third item, I hope I'm not getting too long, if you take a look at the mercury that's in the plant, in terms of discharge, the gentleman from Midwest Generation indicated that they treat both the fly ash and the mercury as a dry residue.

That's news to us, and were the information provided by IEPA more detailed and explicit about how the various unit processes operate within the plant, it would have saved me some time, and a lot of other people some grief, in terms of understanding and making reasonable and rationale comments back to you.

The plant is going to be -- required to do SO2 control. The SO2 that's emitted from the plant historically is on the order of 200 tons or 2,000,000 pounds per year. There will be various types of materials ejected into the flu vats for purposes of controlling that.

The SO2 technology that is associated with it is likely to make metals more mobile. So, one of the problems, and indeed a new waste stream that you

might take a look at, is the business of the SO2 1 2 That's part of that. control. Lastly, the gentleman from Midwest 3 Generation said that the ponds are not leaking. 4 They may not be leaking, but there are monitoring 5 wells around the perimeter that are coming up with 6 7 arsenic, and I won't go through all of them. don't remember all of them, but they are the very 8 9 types of heavy metals that we have concern about. The idea that you would find those things 10 11 in the area around it would imply that the supernatant water above the solids that are in the 12 13 pond is leaching metals, and it is an item of concern. 14 15 So, past that, we would ask that you do a much more stringent job of oversight for this 16 permit. We would ask that you take a look at those 17 18 2010 U.S. EPA Guidelines, which asks people not to 19 monitor alone, but to put BAT technology in place so 20 that these sorts of things can be controlled. 21 Thank you, and I apologize for going on so 22 long. 23 HEARING OFFICER STUDER: I was going to say 24 we've reached the time limit. It sounded like you

were winding down, so I allowed to you continue. 1 MR. BLAND: Good. 2 3 HEARING OFFICER STUDER: Evan Craiq. MR. CRAIG: Yes, my name is Evan Craig 4 I live in Vernon Hills, Illinois. 5 C-r-a-i-q. one of those six-and-a-half million people that 6 7 drink Lake Michigan water. I boat in it. I bathe 8 in it. 9 I came here because I can't do your job. I was down at the beach today, and I didn't take my 10 11 chemistry set with me to make sure the water was okay before I got into it, and I didn't check it 12 this morning when I had some water. 13 So, I'm here pleading with you to please 14 15 do your job in a protective way, so that we don't have to find out too late that the water wasn't safe 16 for our consumption or safe for our use. 17 18 And, so, that's a question I really don't 19 quite understand, because it seems like this plant 20 has been running for a long time, and since before 21 we even had a Clean Water Act; and you're saying, 22 "Well, it was okay then, so we think maybe it's okay 23 now." 24 So, I'm asking is your role to allow a

discharge that might further impair the waters of 1 2 Lake Michigan, which are already impaired from 3 mercury, and then see whether they do; or is it to limit the discharges, to insure that Lake Michigan 4 water is not impaired in the future, and then check 5 to make sure that that goal is achieved? 6 Are you prospective or precautionary? 7 would like an answer. Is that fair? 8 9 MS. WILLIAMS: Both. MR. CRAIG: Both? So, sometimes it's a 10 11 chemistry experiment with our Great Lakes, and sometimes you're saying, "You can count on us," and 12 when do we know? 13 We use all data available at the MR. LeCRONE: 14 15 time we're renewing one of these permits and review it to determine where the baseline data is 16 available, whether it is believed to be in 17 18 compliance with the discharge standards or not. 19 Based on the data we have available on our review, 20 we draft the permit accordingly. 21 Now, you know, like somebody else noted earlier, we've got a new metals monitoring condition 22 23 permit to gather additional data beyond what is 24 required in the 2013 permit renewal application to

give us more data points for the next permit cycle.

The more information we have, the more accurate review on what we can do, the easier it is for us to make those determinations.

Our goal is to make sure that this plant is meeting all the goals of the Clean Water Act and the regulations developed under that. We do that to the best of our ability with the resources available.

We're always trying to, you know, do a better job, and that's why we have these hearings is to gather more information that maybe there is something we weren't aware of, some data we didn't have; and, so we always welcome that to make our permit as strong as it can be.

MR. CRAIG: Okay. Well, I think that Midwest Generation's permit expired four or five years ago, and they submitted a new permit, which was an opportunity, I think, for you to ask them to be collecting more data so you could make a better decision.

So, I just am imploring you to be precautionary in the absence of data, because there is a huge absence of data up here. We don't have

SO2 sensors with a huge SO2 source. You're talking we have no mercury sensors with a known source of So, please be more precautionary. mercury. Then I would like to bring up another Lake Michigan levels have dropped to record low conditions for the last 14 years, posing an emergency condition in the lake. You state you think that the discharge loading has not worsened, if I heard correctly, but I'm concerned because of the same discharge into less-receiving water will have a greater impact. So, I'm asking you to please reconsider your decision to weigh the anti-degradation analysis and requirement. There is just less water out Everybody knows it. Ships can't bring their there. burdens into the ports. It's an emergency

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you.

HEARING OFFICER STUDER: Thank you.

condition. I would like you to reflect that.

MR. BRADEN: Robert Braden, B-r-a-d-e-n. I've been a resident of Waukegan since 1985; and, basically, there's a point of recreational use of Lake Michigan that Waukegan residents, and residents outside of Waukegan, can come to Waukegan's beach

and swim, kite surf, and kayak, you know, water recreational use of any types.

It is a resource that not a lot of communities have. So, I think it's important that our state agencies and organizations and the state Illinois EPA issue the strictest guidelines under this permit that you can.

Even if you can impose upon Midwest

Generation to use closed-cycle cooling, so that they
would not discharge thermal hot water into Lake

Michigan.

So, anyway, I'm asking you to please do the most that you can to protect public health of not only Waukegan citizens, Illinois citizens, but citizens of the country and the health of Lake Michigan. Thank you.

HEARING OFFICER STUDER: Thank you, Mr. Braden.
Doug Ower.

MR. OWER: Hi. My name is Douglas Ower,

O-w-e-r. I am a resident of Zion. I've lived there

most of my life. Zion is just north of Waukegan on

Lake Michigan, and also Zion uses drinking water

from the lake, as you and as do many other citizens

of this area.

One of the things that I'm quite concerned 1 about is ground water contamination from the ash 2 3 ponds. As I understand, last year the IEPA issued a notice of violation about ground water 4 contamination; is that correct? 5 MR. DUNAWAY: That's correct. 6 7 MR. OWER: Is there anything in this permit 8 that would require amending the standards or 9 monitoring or regulation or plans to clean up that ground water contamination? 10 11 MR. DUNAWAY: The permit, itself, does not contain any ground water monitoring; however, as a 12 result of that violation notice, there was an 13 approved compliance commitment agreement which does 14 15 require ongoing monitoring, also requires installation of a couple of additional wells at the 16 site. 17 18 MR. OWER: Now is that a continuous monitoring 19 or how often? 20 MR. DUNAWAY: Quarterly. 21 MR. OWER: Could that be increased, I mean 22 quarterly? Can we check that more often, and what 23 kind of plan is there? 24 Currently, we don't believe the MR. DUNAWAY:

active ash ponds are the source of contamination. 1 2 There appears to be some other source, other than the active ash ponds. 3 We do not necessarily know what that is 4 5 right now, but we have had discussions with Midwest 6 Generation, and they are looking at the situation, 7 and they have engaged their consultants in looking 8 into that also. 9 MR. OWER: The other thing is I understand the U.S. EPA is currently revising their rules as far as 10 coal ash pollution, the pollutant runoff from the 11 12 ash ponds. Is that correct? Have they asked the Illinois EPA to try to 13 look at changing their standards? 14 15 MR. LeCRONE: I can take that one. U.S. EPA has proposed to update the effluent limitation 16 quidelines for the steam electric subcategory which 17 18 uses the power stations. 19 Some of that will include potentially new 20 limitation upon ash discharge and that sort of 21 It's still in the rule-making process, so 22 there hasn't been any final decision what that final 23 rule is going to look like at this point. 24 So, we always look at a permit review

Part of that is looking at what is being 1 cycle. 2 discharged isn't complying with standards. Does 3 something else need to be done? That is always part of our review anyway, but U.S. EPA is in the middle 4 5 of that rule-making process. MR. OWER: So, is there any change in this 6 7 permit from the previous permitting to address that there should be a change in the standards? 8 9 MR. LeCRONE: There is quite a bit of additional monitoring required by this permit that 10 11 was not included in the previous permit. Okay. Well, okay. 12 MR. OWER: I quess to summarize, I would just hope that EPA tightens up 13 the standards on the permit, does everything they 14 15 can to monitor this ground water pollution, have a cleanup plan, and also more monitoring and treatment 16 of the effluent discharge. 17 18 That is, as I understand, 19 8,000,000 gallons a day of effluent discharge going 20 into Lake Michigan for decades. Thank you. 21 HEARING OFFICER STUDER: Thank you, Mr. Ower. 22 Verena Owen. I'm happy 23 My name is Verena Owen. MS. OWEN: 24 to spell my last name. More people are interested

That's V-e-r-e-n-a O-w-e-n. 1 how you spell Verena. First of all, thank you, Illinois EPA, for 2 holding a public hearing. I know this isn't always 3 easy, but we appreciate that you come and listen to 4 the citizens of Waukegan, Illinois, on this NPDES 5 permit. Thank you very much. 6 7 This is a NPDES permit, and if you look at the P and the E of what that means, it actually 8 9 means pollution elimination, not illusion of allowing permits; and when the Clean Water Act was 10 passed in 1982, the expectations were actually that 11 by 1985, all water pollution had ended. 12 Well, obviously that did not really 13 The other thing that the Clean Water Act 14 15 envisioned is that they would have to install the best technology; however, coal has enjoyed a 16 loophole for over 30 years. 17 18 Other industries, from refineries to paper 19 manufacturing to chemical, they have had the 20 requirement to address their water pollution much 21 longer than the coal industry has. I was in North

Carolina last week in the Catawba River.

effluent limitation quidelines.

released a big report, and it responds to the

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The river has the boaters, and the kids, and the fisherman, and we went out to a coal plant, passing a water intake plant, just pretty much like the one in Waukegan just down here, and saw this orange alien soup coming off that coal ash plant.

Nothing that looks like it should ever go into a body of water that supplies drinking water for citizens.

I was at the Illinois River last week, and

I was at the Illinois River last week, and I know you guys are going there next week, and the same kind of community that wants clean drinking water, that wants to enjoy the fish, that wants to make sure that their kids can swim in a safe water.

I live in Winthrop Harbor, which is about four miles north of here, just north of Douglas and Zion. We get our drinking water out of Lake Michigan. I swim in Lake Michigan, and I don't understand why we have ice fisherman out there in the winter fishing in the marina.

So, this is my lake. This is our lake.

Nobody has a right to pollute our lake. So, I'm asking you to issue the permit that does not pretend there is no problem. U.S. EPA issued the permit, even before it was very clear that it expects the

state to step in when the federal regulations are 1 2 not yet there. 3 So, do not say we're waiting for it. have clear marching orders to protect the citizens 4 5 of Illinois, and I hope that you will. Thank you. HEARING OFFICER STUDER: Thank you, Ms. Owen. 6 7 Peggi Braden. Peggi Braden, B-r-a-d-e-n. 8 MR. BRADEN: 9 HEARING OFFICER STUDER: And, for the record, the first name is P-e-q-q-i. 10 11 MS. BRADEN: I'm a concerned Waukegan citizen. I am a school nurse in Waukegan School District; and 12 13 for about 11 years, I worked at the elementary building on the south side of Waukegan, which is the 14 15 poor or lower-income area of Waukegan. I don't know a whole lot about the 16 engineering of the power plant, and all that kind of 17 18 stuff, but what I do know is that the heavy metals 19 are bad; and I know that there's pollution coming out of that power plant that causes, you know, that 20 21 has heavy metals. 22 I know mercury is bad. Mercury was so bad 23 that thimerosal, which is a preservative that they 24 put in the required childhood vaccines, they took

that out, and thimerosal is just a derivative of mercury; and they took that little bit of thimerosal out of the preservatives out of the vaccine because mercury is that bad.

Lead is bad. Children six years and under, they have to be tested for lead levels, blood lead levels for their preschool physicals quite early. So, the heavy metals are bad. That's one of the reasons why we have a fish advisory in Waukegan.

I also know, from working in Waukegan School District, that we do have a fairly large special-education population. Is there a connection between the heavy metals? Well, yes, there is.

It's pretty much proven lead levels do cause developmental delays and cognitive problems later in life, you know.

Is it all because of the power plant pollution? No. I mean, there's lead paint.

There's emissions from cars. There is other causes.

The other thing that I know is that we have the fish advisory that we limited the amount of fish that one can eat coming out of Lake Michigan.

I know for a fact we have families, the low-income families, supplement their diets from fish, to help

put food on their dinner table. 1 If they have to choose between putting 2 food on the dinner table and following the fish 3 advisories, well, they're not going to follow it. 4 So, they're getting a lot of lead levels and mercury 5 levels. Mercury is in the fish. 6 7 They're getting high heavy metals in their diets, and I just really, really feel that we have 8 9 obligation to make certain that Midwest Gen uses the state-of-the-art, top-of-the-line, 10 the-best-of-the-best-of-the best anti-pollution 11 controls that they can for the water here in Lake 12 Michigan. 13 We owe it to the children. We owe it to 14 15 the mothers to be here in Waukegan. This pollution that has been going on in Waukegan has been going on 16 for decades, and it needs to stop. It is time for 17 18 it to stop, as much as we possibly can, with the current technology that we have. Thank you. 19 20 HEARING OFFICER STUDER: Thank you. 21 Ower. 22 Regular spelling Diane, D-i-a-n-e, MS. OWER: 23 Ower, O-w-e-r. I live in Zion. I'm following Peggi 24 on what's going to look really funny.

I am a teacher, too, in Waukegan, and I was going to say I'm speaking here for the students that I have, who will often tell me they are eating the fish, and it does come up, "Why are there mercury levels? What does that mean? What is it doing to me? But we have to eat the fish."

So, I'm where the rubber meets the road in second grade, because the second graders have very simple direct questions, "Why is it in the lake to begin with? Where is it coming from? Where are the adults that are supposed to be watching this and taking care of our lake?"

So, I'm speaking for them. I am hoping that you can take our message back that we would like our Great Lake to be healthy and toxin free. The aquatic life that Mr. Bland talked about, it isn't just fish, it is even in larva that feeds the fish eventually.

So, the aquatic life and the quality of our drinking water, we need the maximum protection, and it's in your purview to require it, to require it for our lake. So, that's what I'm requesting for my students and for people who aren't here to speak up on it. Thank you.

Thank you. 1 HEARING OFFICER STUDER: Edra 2 Stewart. 3 MS. STEWART: Good evening. State my name is Edra, E-d-r-a, last name Stewart, S-t-e-w-a-r-t. 4 5 have a question here for the whole panel hopefully. HEARING OFFICER STUDER: Can you speak up? 6 7 MS. STEWART: I have a question here for the 8 whole panel here, and hopefully it will cover all of 9 you. I don't know, maybe, of you can answer 10 11 that question, but my question is: What secured guarantee that you can give us here in the Lake 12 13 County area where our water is being -- having the coal ash come in from the Midwest Generation, what 14 15 secured guarantee can you give us today, or you foresee that it is safe, it's safe today, and it 16 would be safe in the next five to ten years from all 17 18 of the comments that you just heard, particularly 19 for the coal ash that is flowing through. 20 From sitting there, I can't get a real 21 good firm secure answer that it is safe, the 22 percentage of it. I think I stated that the 23 different type of data. 24 How secure is that data that you can

clearly, you know, sit there and say for the next 1 five or ten years, or even today, that our students, 2 that our children, that our mothers to be, myself, is safe from the coal ash that are being put through 4 5 in Lake Michigan, just from a personal perspective? MR. LeCRONE: Well, all I can say is that we've 6 7 reviewed these discharges, whether it's for a new 8 permit or a renewal such as this. 9 We review all the data that we have available and compare it to our Water Quality 10 11 Standards and our effluent Standards, to make sure that based on the data that we have, that the 12 13 discharge is in compliance with the standards, which is the case here for the Waukegan station. 14 15 However, we are always, you know, requiring additional monitoring, whether it is 16 limitations or just monitoring of certain 17 18 pollutants, like the list of metals we've got in the 19 draft permit here, in order to have more information 20 available to us, to always make a better informed 21 decision than the one before it. 22 So, what we are confident that based on 23 the data we have, this permit is compliant, meeting 24 all the Water Quality Standards, and the discharge

is not causing undue harm to the lake. Part of our 1 2 review process is to continually review additional 3 newer data, to make sure that that happens from here on out. 4 MS. STEWART: 5 Okay. So, as we leave here this evening, with all the information that you have, it 6 7 will be reviewed and be reconsidered from a civil 8 standpoint for our community? 9 MR. LeCRONE: Right. 10 HEARING OFFICER STUDER: Absolutely. 11 UNKOWN SPEAKER: Every year or every five 12 years? HEARING OFFICER STUDER: When we conduct the 13 hearing, the purpose of hearing is to get 14 15 information from the public. MS. STEWART: 16 Sure. HEARING OFFICER STUDER: That information is 17 18 taken, it is looked at, and we consider what 19 appropriate changes to the permit needs to be made, 20 whether or not a permit really does comply with the 21 requirements or even having the permit issued. 22 So, it is a re-evaluation process based on 23 the comments that are made tonight; and in addition 24 to that, we also review the written comments that

are submitted during the comment period, which 1 extends for 30 days beyond the hearing. 2 So, if you leave here tonight, and you 3 have additional comments and say, "Oh, I should have 4 made, " you've still got the opportunity to submit 5 those, and we will also look at those as well. 6 7 Karen Long McCleod. The next person will be Wallace Winter. 8 9 MR. WINTER: Hello. My name is Wallace Winter W-a-l-l-a-c-e, Winter, winter like the season. 10 testifying as a private citizen and resident of Lake 11 12 County and from Great Lake. Lake County has been home to my family for 13 most of the past 160 years; and I suppose, in part 14 for that reason, I feel an obligation to be a good 15 steward to try to protect its land, water and air. 16 17 And I guess that means, among other 18 things, speaking up at hearings like this, to warn 19 of threats to the environment posed generally by the 20 combustion of fossil, and specifically by the 21 polluted water discharges into Lake Michigan by 22 Midwest Generation Plant in Waukegan. 23 Although I'm not an expert on water 24 quality, I can read and have noted that Midwest

Generation began operating 90 years ago in 1923, and its current boilers are more than 50 years old.

This plant is a white and geriatric elephant, if there ever was one; and yet, the IEPA repeatedly allows it to resist modernization and adoption of the best available technology to assess damage to aquatic like at the inflow stage, or to monitor ground water near the coal ash ponds, or to prevent heated -- returning heated water to the lake by using closed-cycle, wet-cooling towers, or to test heavy metals, especially mercury, which we've heard a lot about this evening in the coal ash ponds, and then the 8.3 million gallons of effluent discharge that the permit allows the plant to pour into the lake each day.

EPA's allowance of the Waukegan plant not to embrace existing technological innovations in these areas results from IEPA's practice of grandfathering the Waukegan plant, so it doesn't have to follow the U.S. EPA's recent and more stringent guidelines on coal ash pollution.

In the proposed permit at issue here, IEPA has set no limits for coal ash pollution from the Waukegan coal plant. This poses a significant

threat, which we've already heard mention of, to the health of Lake Michigan and the people in the surrounding communities.

Moreover, the IEPA only requires quarterly monitoring of Mercury, which is already at levels so high that fishermen are advised not to eat what they catch.

The IEPA should impose the recent U.S. EPA guidelines on the Waukegan plant instead of exempting the plant from virtually all these guidelines.

In addition, I submit the IEPA should include in its permit the requirement to develop a ground water cleanup plan to address the documented pollution of nearby ground water, and a remediation plan to reduce the estimated 5.2 million fish killed per year by the intake of 665,000,000 gallons of water each day.

Would the IEPA have been so lax in its proposed water discharge permit if the plant had been located between Lake Bluff and Lake Forest, or between Winteka and Glencoe?

Midwest did a demographic summary of the area within three miles of the plant reveals

approximately 70 percent of the population living in 1 that area are persons of color, and the NAACP in 2 3 2012 estimated that the average income in that community was just over 16,000 per year. 4 It should also be noted that there are 5 6 five elementary schools with a total of almost 2,000 7 students. We've already heard from two representatives who interact with these students 8 9 within approximately three miles of the plant. I urge the IEPA to listen carefully to the 10 11 testimony of residents in the communities affected by the polluted water caused by the plant. 12 Finally, I trust the IEPA, as it 13 re-evaluates and hopefully strengthens its permit 14 15 for the Midwest Generation plant, will keep in mind the fact that this plant is situated only a few 16 hundred yards from what the Illinois Department of 17 18 Natural Resources has described as, quote, the 19 highest quality natural area in Illinois. 20 I'm referring of course to the 3,070-acre 21 Illinois State Beach Park and the adjacent natural area, including Spring Bluff Nature Preserve owned 22 23 by the Lake County Forest Preserve District. 24 This area, which I assume most of you know

and have enjoyed, as I have, reserves the last 1 remaining shore in the state with natural coastal 2 3 dunes and wetlands, a coastal flora of exceptional high-quality, including more than 50 4 state-threatened and endangered species. 5 It also, by the way, includes a site where 6 7 they believe in 1673 Marquette and Joliet camp on their way up to Greenbay and eventually discovered 8 9 the Mississippi River. For hundreds of years, the Indians in this 10 part of the world considered this Great Lake behind 11 us or behind me as sacred waters. I urge the IEPA 12 to keep that in mind, as it decides how much 13 latitude to give Midwest Generation in discharging 14 polluted effluent into Lake Michigan. 15 16 HEARING OFFICER STUDER: Thank you. Mary Mathews. 17 18 MS. MATTHEWS: Mary Mathews, M-a-t-h-e-w-s. 19 Hi, I'm Mary Mathews, a concerned citizen, and my 20 family and I live in Lake Forest, and I'm sorry, I 21 did not know Mr. Volkmann. He made very eloquent 22 comments. 23 We are just down from the lakefront here. 24 One of our favorite activities is going to the

beach. Another is fishing, especially when my nephew is visiting, as he is an avid fisherman. We go out on a charter boat here in Waukegan and spend hours on the water.

Unfortunately, we often had to release the fish, as we are limited to the amount that we can eat, due to the heavy metals in the fish. Because of the coal ash pollution, it is unsafe to eat fish as often as one would like, even though health-wise people are encouraged to include more fish in their diets.

Isn't it ironic that the government stocks the lake for fishing, but then we can't eat the fish because of all the mercury, lead and arsenic that they have ingested.

The coal plant is a major cause of Lake Michigan's pollution, and we have known about it for decades. There is no excuse for this. If the coal plant is going to continue to operate, it must stop polluting our water and endangering my health, my family's health, and the health of everyone else who likes to eat fish from Lake Michigan.

Midwest Generation should not be allowed to get away with polluting our water and food. They

have had plenty of time to make needed changes. 1 This type of polluting energy is not needed. 2 3 health of millions of people, who depend on Lake Michigan, deserve better. 4 5 There needs to be strong quality standards on the amounts of heavy metals going into Lake 6 7 Michigan. There needs to be strict frequent monitoring of the water, and there needs to be 8 9 severe fines. When Midwest -- I have a question for you. 10 11 When Midwest Generation sells this plant, will the permit automatically transfer to the next owner, 12 13 with the possibility of more delays in meeting standards, or will the new owner have to reapply for 14 15 a permit? Typically, the permit is 16 MR. LeCRONE: transferred. Both parties would request the permit 17 18 be transferred, whether it's in the administratively 19 continued state that it is now, or whether it is 20 renewable. 21 The permit is whatever administrative 22 It will be transferred upon state that it is. 23 written request from both parties. 24 MS. MATTHEWS: Will that be automatic for

1 renewal? Typically, yes, as long as they 2 MR. LeCRONE: 3 meet the requirements in the federal regulation for 4 requesting a transfer of a permit, yes. 5 MS. MATTHEWS: Okay, thank you. HEARING OFFICER STUDER: Thank you, 6 7 Ms. Mathews. Jessica Dexter. Jessica Dexter, that is 8 MS. DEXTER: 9 I'm just going to jump right into D-e-x-t-e-r. questions for IEPA on the permit. I'm a staff 10 attorney with the Environmental Law and Policy 11 12 Center. So, my first question is -- I have a 13 couple of basic questions about the permit and how 14 15 it was drafted. Although the draft permit fact sheet states that two boilers are operating instead 16 of three, the average discharge flows from the 17 18 asphalt have not changed from earlier permit drafts, 19 as we've seen. 20 Should they be corrected to flows as 21 stated by Midwest Generation in some of their 22 earlier comment letters that were referenced in the 23 comments we submitted earlier? 24 Well, Unit 6 did drop off line and MR. RABINS:

the permit does not reflect that. We will revisit 1 2 the flow numbers. 3 MS. DEXTER: Does it have any impact on 4 effluent limits that are in the draft permit? MR. RABINS: All the limitations are 5 concentration. So, no, they are not flow based. 6 7 MS. DEXTER: Okay, thank you. Did IEPA change the identified receiving water between the 8 9 December 2, 2011, draft, and the February 8th, 2013 draft? 10 11 No, we did not. MR. RABINS: The receiving water is still 12 MS. DEXTER: 13 considered an open water of Lake Michigan then? 14 MS. WILLIAMS: Yes, that's the EPA's position. 15 HEARING OFFICER STUDER: The question he answered to was Lake Michigan. 16 Go ahead. MS. DEXTER: All right. Now I'll have some 17 18 questions about thermal pollution. The draft permit 19 put on public notice in 2011 included thermal 20 limits. Why did IEPA include those thermal limits 21 in that draft permit? 22 MR. RABINS: In the previous permit, the board 23 order that was referenced in that, the board order 24 mentioned in the thermal condition did not reference

1	the relief.
2	So, the initial draft permit that we
3	issued for this facility did not include the relief.
4	When we received comments from the company, they
5	commented in the order granting relief was brought
6	to our attention, so we reinstated it.
7	MS. DEXTER: Were the limits in the 2011 draft
8	permit based on Lake Michigan Water Quality
9	Standards?
10	MR. RABINS: Yes, they were the Lake Michigan
11	Quality Standards.
12	MS. WILLIAMS: They were not water-quality
13	based effluent limits.
14	MS. DEXTER: Can you explain more what that
15	means?
16	MR. TWAIT: They did not encompass any type of
17	mixing.
18	HEARING OFFICER STUDER: I can barely hear you.
19	You're going to have to speak up so everything that
20	is spoken here I do want on the record, and I do
21	want the audience to be able to hear. So, you're
22	going to have to speak up from back here.
23	MR. RABINS: The original permit the
24	previous permit, the thermal condition did not

reference thermal -- the board order did not or the 1 condition did not reference the board order that 2 3 grants them thermal relief. So, when this permit was drafted, they 4 5 didn't get any thermal relief. They had to meet the 6 thermal standards at the point of discharge. 7 is how we drafted it. During the comments, when we received 8 9 comments from the company, the order that granted relief was brought to our attention. 10 11 reinstated the relief and issued a new draft permit, and then this is a public notice permit. So, this 12 13 is the second permit after that. UNKOWN SPEAKER: The thermal relief is the 14 15 water --HEARING OFFICER STUDER: Okay, it's not your 16 17 turn to speak. So, please do not interrupt. 18 MS. DEXTER: Did anything change other than the 19 -- between 2011 and 2013, other than finding this 20 variance in the Pollution Control Board that caused 21 IEPA to remove those thermal standards from the 22 permit? 23 MR. LeCRONE: No, that was it. They didn't 24 correct the reference in the permit. That other

board order we corrected it when we released that it 1 2 was being drafted. 3 HEARING OFFICER STUDER: Could you hear in the back what Darin had said, or was it too muffled? 4 Too muffled. 5 UNKOWN SPEAKER: HEARING OFFICER STUDER: You did not hear it; 6 7 is that correct? What he said there was incorrect reference in that draft permit, and that was 8 9 corrected in the public notice permit. In preparation of this draft 10 MS. DEXTER: permit, did IEPA review the documentation presented 11 for the 1978 variance that we're talking about? 12 Did we review the old studies? 13 MR. LeCRONE: The old studies documentation. MS. DEXTER: 14 15 MR. LeCRONE: We have the old studies from '75 We basically looked at what was the 16 and '76. facility discharging now as far as heat load, and 17 18 determine if there had been any increase or anything 19 that resulted in additional heat being discharged 20 into the lake, which may cause those assumptions 21 made in the earlier studies to no longer be 22 applicable. 23 We didn't find any reason to believe there 24 was any additional heat loads in the lake, so our

1 decision was based on that. MS. DEXTER: Okay. Do you know whether the 2 3 aquatic community in Lake Michigan as a whole 4 experienced any changes since 1978; for example, have species recovered or declined, has the 5 6 composition of the aquatic community changed over 7 time? 8 UNKOWN SPEAKER: I can answer that. I can 9 answer that truthfully. Sir, with all due HEARING OFFICER STUDER: 10 11 respect, I'm not allowing audience members to interrupt. I've already corrected one person, and 12 I'm going to ask that we hold an orderly hearing. 13 It's very difficult for the court reporter 14 15 to hear when there's other people that are unrecognized speaking, and that's why I go through 16 the process of having people spell their name. 17 18 Scott, go ahead. 19 I'm not a biologist, and I haven't MR. TWAIT: 20 looked at it. 21 MS. DEXTER: Thank you, Dean, for your efforts 22 to keep this hearing orderly. I appreciate the 23 people's enthusiasm. I do appreciate you run a very 24 fair hearing.

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1
         HEARING OFFICER STUDER:
                                   Can you move in a
2
    little bit?
 3
                       I'm afraid if I'm close, I won't
         MS. DEXTER:
 4
    feel like I need to yell as much.
5
         HEARING OFFICER STUDER:
                                   I'll remind you.
6
         MS. DEXTER:
                       Thank you.
                                   Did the 1978 variance
    delineate the extent of the thermal plume from the
7
8
    Waukegan plant?
9
         MR. LeCRONE:
                        I don't remember off the top of
    my head.
10
11
         MS. DEXTER:
                       All right.
                       You mean give a distance like they
12
         MR. RABINS:
13
    get 1,000 feet to comply?
         MS. DEXTER:
                       Were they able to actually
14
15
    determine what the thermal plume was from this
16
    plant?
17
         MS. WILLIAMS:
                         We'll have to look into it.
18
         MR. LeCRONE:
                        We'll have to look into it.
19
         MS. DEXTER:
                       Thank you.
                                   I think I'm going to
20
    move on to new questions about impingement and
21
    entrainment. Can you explain what cooling water
22
    intake structures are operated at this facility?
23
         MR. RABINS:
                       The cooling system for each unit
24
    is designed as a once-through system. Cooling water
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from the lake is withdrawn from an onshore location, 1 2 and passes through the intake canal into a 3 constructed embankment prior to entering the plant through two intakes, one for each of the two units. 4 There is bar rack located in front of the 5 6 traveling screens at each intake. Each screen is 7 equipped with fixed trap bars. Each screen house is equipped with fixed-trash bars, through-flow 8 9 traveling screens and a high pressure wash-water All screens are made with No. 12 page wire 10 with three-eighth inch openings. 11 12 The traveling screens are oriented parallel to the face of the screenhouse, and the 13 intake withdraws water from the entire column. 14 15 MS. DEXTER: Thank you. What data did IEPA 16 have regarding impingement and/or entrainment at this facility? 17 18 MR. LeCRONE: Current, historical, both? 19 MS. DEXTER: I would say both. 20 We have the original studies, and MR. LeCRONE: 21 we have the proposal for information collection that 22 was submitted under the old phase 2 rules. We did make a best professional judgment 23 24 determination. We tried to at least. Maybe we

didn't explain our process or our decision making 1 2 well. We can expand upon that in the responsiveness 3 summary and give a better outline of what we considered and didn't consider and the like. 4 We tried to do that for this one, but it 5 seems pretty clear that maybe we didn't hit the 6 7 mark. So, we will correct that and give that full 8 explanation in the responsiveness summary. 9 HEARING OFFICER STUDER: We're approaching the time limit. We've actually gone over the time 10 11 limit. If you have just a question or two yet, in this line, I'll allow you to answer it and we'll go 12 13 accordingly. MS. DEXTER: Actually, that covers everything I 14 15 have on this issue. So, I'll ask more questions after, if we have time. 16 HEARING OFFICER STUDER: Okay, very good. 17 18 Julie Morrison. 19 MS. MORRISON: Hi. Thank you. My name is 20 Julie Morrison, M-o-r-r-i-s-o-n. I live in 21 Deerfield. I drink the water from Lake Michigan, but I'm here this evening to speak for 190,000 plus 22 23 people that I represent in State Senate District 29. 24 I'm the State Senator for that district.

You've heard a lot of very impassioned speakers tonight. Some with a lot of technical background that I don't pretend to have. Some who speak very passionately about the children they know who are in their school systems and who are their neighbors; and without repeating everybody else, I just leave one message with you: You have a tremendous responsibility.

It's not just an administrative job you guys have, and I know you take it seriously. Errors in judgment will last for the next two generations of people who live in our area. So, I appreciate your consideration, and I will also be sending written comments, but thank you for your time tonight.

HEARING OFFICER STUDER: Thank you, Senator. Cindy Skrukrud.

MS. SKRUKRUD: I think I have a loud voice. My name is Cindy Skrukrud. My first name is C-i-n-d-y. My last name is S-k-r-u-k-r-u-d, and I am the clean water advocate for the Illinois chapter of the Sierra Club; and like the people here tonight, and on behalf of Sierra Club, many members who fish, swim and boat in Lake Michigan, and use the lake's

water as their drinking water supply. I'm concerned that the Midwest Generation Waukegan power plant minimizes the pollutants it discharges to the lake.

In addition, we need to make sure that the power plant is not contaminating ground water, and I have a number of questions I would like to ask about the permit which the IEPA proposes to reissue to Midwest Gen.

My first question is: Has any equivalent of the monitoring required by Special Condition 18, that's the last condition in the permit, or second to the last, been required in the past? If so, have reasonable potential analyses been conducted based on that data.

MR. RABINS: No, it has not been required in the past.

MR. TWAIT: The application, although had a request for information, and the Midwest Generation facility provided one data point for the Agency, we've not done a reasonable potential analysis on it yet; but we did take a look at it, and most of the parameters were not detected.

Of the ones that were detected, there was only a reasonable potential for one of those

parameters; however, the data point was not above 1 2 the Water Quality Standard. 3 MS. SKRUKRUD: What pollutant was that? MR. TWAIT: Copper. 4 Now, we got some information 5 MS. SKRUKRUD: 6 from the files of what Midwest Gen had submitted to 7 IEPA, and they had their own analysis of their own data that they found that there was a reasonable 8 9 potential to exceed Water Quality Standards at outfall 001 for iron, lead, mercury and phenols. 10 11 Why are there no limits on those 12 pollutants in the permit? MR. TWAIT: 13 I haven't seen that analysis. MS. SKRUKRUD: I'll make sure you have a copy 14 15 of it. Thank you. 16 MR. TWAIT: They did not perform their only 17 MS. SKRUKRUD: 18 reasonable potential analysis on other metals that 19 are often found in coal ash. Those include things 20 like aluminum, thallium, silver, arsenic and 21 antimony. 22 Arsenic and antimony both of those have 23 been detected in the ground water near the coal ash 24 So, that raises a concern for me. compound.

1	Selenium, they reported a value of
2	.21 milligrams per liter selenium in the effluent
3	from the plant's wastewater treatment system, while
4	the Lake Michigan standard is 5 micrograms per
5	liter.
6	So, my question is: Has IEPA looked at
7	those pollutants and the need for a limit in the
8	permit?
9	MR. TWAIT: The water from the wastewater
10	treatment plant, it's a significant amount of
11	dilution, but the Agency will go back and look at
12	that data.
13	UNKOWN SPEAKER: Say that again. We can't hear
14	you.
15	MR. TWAIT: I'm sorry. The water from the
16	wastewater treatment plant gets a lot of dilution
17	from the cooling water; however, the Agency will go
18	back and take a look at that data.
19	MR. SKRUKRUD: In general, are facilities
20	allowed to use dilution to meet Water Quality
21	Standards?
22	MR. TWAIT: Yes, they are, to meet the Water
23	Quality Standards.
24	MS. SKRUKRUD: Now I want to ask the question

on this same line about mercury. Special Condition 1 2 15 describes the mercury monitoring method that is 3 to be used. Can you clarify for me that that applies 4 to both outfall 001 and internal outfall CO1; and 5 then my question is, this is how I read it, and you 6 7 can tell me if I'm wrong: Why is there a monthly monitoring required for a year at outfall 001 and 8 9 then quarterly thereafter, while only quarterly monitoring is required at outfall CO1? 10 MR. RABINS: 11 There is no mercury monitoring at That reference was left in there by error. 12 had mercury monitoring on all the subway streams, 13 but we decided to monitor it at year one instead. 14 15 There is no mercury monitoring or metals monitoring required or proposed for CO1. 16 MS. SKRUKRUD: Okay. Has Midwest Gen provided 17 18 any mercury monitoring using the method that is 19 described in Special Condition 15? Have they 20 already provided any data using that method to you? 21 MS. WILLIAMS: No. 22 MR. TWAIT: I have not seen any. 23 MS. SKRUKRUD: Will the Agency use the 24 3.1 nanograms per liter Human Health Standard, or

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the 1.3 nanograms per liter for Wildlife Standard
1
2
    for mercury for Lake Michigan in its reasonable
 3
    potential analysis?
         MR. TWAIT:
                      The agency will look at the most
 4
5
    restrictive.
         MS. SKRUKRUD:
                         So that will be the
 6
7
    1.3 nanograms per liter Wildlife Standard.
                                                  I looked
    at the data that Midwest Gen provided in their
8
9
    application, and they report mercury as a less than
    .2 milligrams per liter value.
10
11
               So, my question is: Can you determine
    whether mercury has a reasonable potential to exceed
12
    the lake, that very low Lake Michigan Water Quality
13
    Standard, if you only have mercury data reported at
14
15
    less than .2 milligrams per liter?
         MR. TWAIT:
                      The old permit did not require the
16
    low level mercury data, and the method that was used
17
18
    does not give sufficient information to say whether
19
    or not the Water Quality Standard is met.
20
         MS. SKRUKRUD:
                         Okay.
21
         HEARING OFFICER STUDER:
                                   I think the .2 is
22
    actually micrograms and not milligrams.
23
         MS. WILLIAMS:
                         Nanograms.
24
         MR. LeCRONE:
                        No, .2 micrograms.
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1	HEARING OFFICER STUDER: It's .2 micrograms.
2	MS. SKRUKRUD: You're saying what they
3	submitted with their application form? Yeah, I see
4	that Jaime is looking at it right now. Maybe I read
5	that wrong. It's still much higher.
6	HEARING OFFICER STUDER: Correct.
7	MS. SKRUKRUD: Micrograms are still much higher
8	than nanograms.
9	HEARING OFFICER STUDER: Absolutely.
10	MR. RABINS: They reported it less than
11	0.02 milligrams per liter.
12	MS. SKRUKRUD: That's what I read, yep. Okay.
13	So, could you please could we receive any
14	calculations that you do, looking at this data, to
15	determine a reasonable any reasonable potential
16	analysis that you do on this data before the close
17	of the comment period?
18	If you do any recalculations, if we could
19	see that and be able to comment on it, that will be
20	helpful.
21	HEARING OFFICER STUDER: I'm not sure we can
22	completely accommodate that, but I'll take that back
23	and see what we can do, Cindy.
24	MS. SKRUKRUD: Okay, great. Thank you. Now

shifting to two questions about dissolved oxygen. 1 2 First, in the December 2011 draft permit, there was 3 a requirement that dissolved oxygen not be less than 90-percent saturation. 4 5 Why was that removed from the most current 6 version of the permit? 7 MR. RABINS: Well, the Agency wanted to go with 8 monitoring status to see what they before we imposed 9 a limit. So, then, my question is about 10 MS. SKRUKRUD: 11 that monitoring condition, which is in Special Condition 11, why is it requiring that dissolved 12 13 oxygen be monitored during the daytime? You've set hours that it's supposed to be 14 15 collected during the daytime, instead of at night, or right before dawn, when we would expect DO to be 16 at its lowest point in the dire one-sentence swing. 17 18 MR. TWAIT: The agency wanted that data 19 collected during our normal business hours so that 20 we could directly compare it to our program that we 21 have of the ambient stations taking samples. 22 stop there. 23 MS. SKRUKRUD: Okay. 24 HEARING OFFICER STUDER: We have also gone the

time limit, but if you have a couple more questions that are dealing with this specific topic, I want to exhaust this topic before.

MS. SKRUKRUD: Well, I have a question about -it's kind of a long question, but it's really one
question about the issue of fly ash.

HEARING OFFICER STUDER: Well, go ahead and ask that question.

MS. SKRUKRUD: So, are both fly ash and bottom ash directed to the coal basins, coal ash basins? There appears to be some inconsistency between the draft permit, which identifies fly ash and bottom ash as waste streams to outfall CO1.

We've seen maps that included a report by a RCRA inspector, which legally defines as fly ash and bottom ash settling basins, and then the RCRA inspection itself says the ponds are bottom ash.

And the fly ash is stored in silos, and then we heard Mr. Nagel's initial statement tonight that the fly ash is handled dry. Then in the permit, there's -- it says there's fly ash sluice.

It lists it as intermittent, but I looked at an IEPA 2011 Compliance Evaluation Inspection Report for this facility, and it lists it as 1.6

million gallons per day. 1 So, is the dry handling of fly ash, or is 2 3 this permit going to allow wet handling fly ash? Mr. Nagel also said that they installed new air 4 equipment in 2008, so that's during this existing 5 permit cycle, that captures mercury in the fly ash. 6 7 If the permit is to be reissued with allowed discharge of fly ash sluice, then I agree 8 9 with Jim Bland that IEPA needs to do an anti-degradation assessment for this new waste in 10 11 the fly ash. The previous permits had fly ash 12 MR. RABINS: 13 in there, and I learned tonight that when they took Unit 6 off line, that that was the unit that they 14 15 were sluicing fly ash and that stopped. So, they are no longer doing that 16 activity. I know the permit reflects it, because 17 18 the previous ones did. 19 So, will the permit be changed MS. SKRUKRUD: 20 to reflect that? 21 At this moment, it hasn't been MR. RABINS: 22 There's an authorization to do it. cited. Ιt 23 doesn't mean they are going to do everything in 24 It has allowed them to do it. here.

MS. SKRUKRUD: If it's going to allow them to 1 2 put out fly ash that has more mercury in it than it 3 used to, then you need to do an anti-degradation 4 assessment. We're going to go back, and MS. WILLIAMS: 5 6 that's when we relook at that based on the new 7 information that we've gotten tonight. 8 MS. SKRUKRUD: Great. Thank you. 9 HEARING OFFICER STUDER: Mike Ohlinger. Hi, folks. My name is Michael 10 MR. OHLINGER: 11 I'm a certified chimney sweep. Ohlinger. I did it for 30 years here. 12 0-h-l-i-n-q-e-r. Is 13 anyone on this panel from Midwest Generation. HEARING OFFICER STUDER: 14 No. 15 MR. OHLINGER: Anyone in the audience from Midwest Generation? 16 HEARING OFFICER STUDER: There are company 17 18 representatives here. 19 MR. OHLINGER: Okay. I've been to five EPA 20 meetings, four for the Asian carp and one for coal. 21 I don't think you folks understand what is going 22 through with this lake right now with the hypoxia, 23 with the Asian carp, with this power plant that 24 didn't run most of the time when I was a chimney

1 sweep, because I was up on the roofs looking down 2 here constantly. 3 What I gather from this meeting is you 4 folks don't know where this mercury emission is 5 coming from, correct? Yes or no? MR. RABINS: What mercury? 6 7 MR. OHLINGER: Into the lake. Well, mostly it was coming from 8 MS. WILLIAMS: 9 the air. Mostly it was coming from the air. Perfect. Now, I will go to 10 MR. OHLINGER: that, what you just mentioned in the air. When was 11 this gross violation of pollution that you caught at 12 13 the power plant, within the past three years, since 2010, 2011? 14 15 HEARING OFFICER STUDER: What gross violation 16 are you talking about? MR. OHLINGER: Well, there's -- I should say 17 18 whether what went on two-and-a-half years ago, that 19 I put a stop to with my videos and going directly to 20 the EPA calling the IEPA. Is anyone on this panel 21 from this local area? 22 HEARING OFFICER STUDER: No. 23 MR. OHLINGER: A regulatory person to regulate 24 Because Springfield at that time, this power plant?

I don't remember the guy I talked to, said that I 1 2 was supposed to put the feet to the fire of this regional area regulator. 3 I don't know where that went from there, 4 but right after that, the power plant was shut down 5 and cleaned up. 6 7 MR. RABINS: We do have staff out here that do 8 field inspections. 9 MR. OHLINGER: How often? HEARING OFFICER STUDER: We would have to give 10 11 you that information. We don't have anyone from the field office here. We have no one from air here. 12 13 It is a water permit. MR. OHLINGER: Okay. I'm watching this power 14 15 plant daily from 41 and Washington Street. emissions are somewhat better. What you have here 16 is a non-filtered mercury, heavy metal producing 17 18 power plant. 19 When everything stops flowing, air around 20 this region, the pollution pancakes out for miles. 21 The same as the one in Kenosha. Okay? Like you had 22 mentioned, one of the biggest sources for mercury in 23 the lake is from the air here. Fallout is

24

tremendous.

There is one video that I put out that actually shows the smoke coming out, losing its therms coming right back down to the ground. Right here we have a glacial incline. That has terrific advantages of drawing the smoke down to the ground in this immediate area. My biggest concern is I'm down here two to three times a week watching the PCB movement from the harbor on to OMC's super fund project. I'm also watching the power plant. What is going to happen in the future with this power plant? What are they doing right now down here to solve the issues. There's construction going on it. I'm sure there had to be permits pulled for this construction. I know there that there's monitoring wells that they cleaned up around. I can't get any information out of the people here because mum is the word. You folks work for everybody here, everybody in this state. HEARING OFFICER STUDER: Have you filled the

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You are the Illinois EPA.

No, I haven't. Now, my next

The reason

out Freedom of Information Act requests?

MR. OHLINGER:

question is:

why the Crawford and the Fisk -- the reason why the Crawford and the Fisk Power Plant was shut down was because monitors on schools reported excessive pollution, excessive over-the-limits of pollution.

Right now in the lake, there's mercury coming out of this. You said it's from the air.

Right now BP is producing 20 times the allowable EPA limit at the south end of the lake.

This lake is going right now through a hypoxia conversion from the Quagga Mussel. The Asian carp are at a barrier. I bark five or six more barriers in the Illinois River. They work, according to my cousin who works for NOAA, who is locked in Alaska, wanted to come down for the Asian carp, wanted to come down for the gulf.

I don't know what you folks do, but the government told all scientists to shut their lips as of BP. James Henson walked away from NASA, because he didn't want everybody here to be false represented.

I want to know what's going to take place at this power plant. I want to know when it's going to take place, because I'm going to be on your guys' tails until I get solid answers for everybody here.

Because I signed an ethical agreement with the Chimney Safety Institute of America to first stop fires for people in their houses and to control the fires. You have to have prevention first.

Coming and saying whatever it wrong with the power plant, unless you address that in a timely manner, nobody here is going to breathe easily. I have bad asthma.

In Waukegan coal conspiracy two, you'll see smoke come out of the chimney, lose its therms, drop right back down to the ground. What is going to be the issue of cleaning up the chimneys?

Because once you clean up the chimneys, you're not going to have this pollution in every stream around here.

HEARING OFFICER STUDER: I understand what you're saying. I also understand the people that are here are primarily water people and most of what you have talked about are air emissions.

MR. OHLINGER: Fallout.

HEARING OFFICER STUDER: That's correct. While it does have an impact on the lake, and I'll add a substantial impact on the lake, this hearing is regarding the water discharge. That's what we are

If you have issues for comments on the 1 here for. water discharge permit --2 MR. OHLINGER: Where is the mercury coming 3 from? Have you pinpointed it? I will explain where 4 5 the mercury is coming from the water. Number one, the coal pile. Number two, you have filtration 6 7 system, one for each boiler room, correct, for the 8 ash? 9 That's all you are taking out of the emissions is the ash. You are also allowing this 10 polluting company to emit ammonia into the exhaust 11 of the system. Same thing with the diesel car 12 13 nowadays. Okay, you're getting HEARING OFFICER STUDER: 14 15 into emissions again. 16 MR. OHLINGER: Right. But this also has -- let me explain what these filters do out here. 17 If you 18 go on the east side of the power plant, you have the 19 ash filters. You also have two large ash tanks. 20 When it rains, everything that goes on at 21 that power plant goes out the same way as the water comes in and it goes back out. 22 23 Water quality first is what I came down 24 here for, and air quality first is what I came down

Those two things, if we don't solve the 1 for. problem, you're not going to have a lake out here. 2 3 You're not -- because what's going on is hypoxia. Do you understand what that is? Oxygen 4 5 depletion. Okay? There's no fish left because of 6 the Quagga Mussel, because the zooplankton and the 7 phytoplankton in the lake is gone. 8 Now, if you don't have oxygen, how are you 9 going to clean up the lake? There is nothing that is going to get cleaned up. Like the Chicago River, 10 11 that is creating such toxic emissions into the lake 12 now more than ever. 13 I really want you guys to do a better job for my kid. I want you to do a better job for my 14 15 neighbor, because he's got cancer. A kid, a kid. HEARING OFFICER STUDER: 16 We appreciate that. We've also gone double the time limit. 17 18 MR. OHLINGER: Okay. Well, let's all rally 19 together and solve this issue, because we all live 20 I'm not going to live here very much longer, 21 because I can't tolerate the ash. Sorry guys, but I'm still be back to fight for you, because this is 22 23 This is just wrong. Okay? just wrong. 24 HEARING OFFICER STUDER: Thank you.

When are we going to get some 1 MR. OHLINGER: 2 answers? 3 HEARING OFFICER STUDER: Give us specific 4 questions that you want answers for, the comment 5 period is open for 30 days. We've gone the time limit. 6 7 MR. OHLINGER: Water quality, number one. 8 don't drink in the lake anymore. I'm sorry, I 9 can't. Thank you, guys. HEARING OFFICER STUDER: Charles Frank. 10 11 My name is Charles Frank, just like MR. FRANK: Charles F-r-a-n-k, and I come here as a 12 it sounds. 13 public citizen. I live in Highland Park. I've lived on the north shore virtually across the street 14 15 or on Lake Michigan my whole life. 16 I currently own property on Lake Michigan in Highland Park, so right out my backyard is the 17 18 lake. I am a member of the board of directors of 19 the Sierra Club nationally, but I'm here as a public 20 citizen. I'm not speaking on behalf the Sierra 21 Club. 22 First of all, I wanted to thank the 23 Environmental Protection Agency, Illinois 24 Environmental Protection Agency, for giving us the

opportunity to address the issues, and thank goodness we live in the United States where we have that opportunity.

I am not an engineer. I am not a scientist, and many people already have spoken to the technical aspects. I don't know the difference between a milligram and a nanogram, so I'm not going to try and reiterate the issues that are a concern to more technical people.

I have had a long business career. I've dealt with senior executives, many Fortune 500 companies, and I respect the comments and statement that the representative from Midwest Gen made earlier today, and I've heard many of those statements.

I know he was doing his job and doing it well, but one thing that I have heard on many occasions over my life is in situations like this, it is appropriate for business executives, and I have been on the other side of the case of the circumstances as well, to do their jobs and meet the requirements of the law as they are put forward and to insure they are meeting the regulations.

What concerns me is that the Environmental

Protection Agency is there to protect the 1 environment, protect us; and while businesses and 2 3 corporations, and I've run several myself, often come forward and say, "We are meeting our 4 5 obligations. We are doing what's required by the law, and if you change the law, if you change the 6 7 regulations, we can't comply with them or "it's 8 going to cost lots of money." 9 I have to say that in every single situation, and I've seen myriads of them, where the 10 11 regulations have been changed, I was in the car industry, whether they were for safety or 12 13 environmental or public protection, and industry complained about them. 14 15 Every single time they were raised, Their businesses 16 industry met those regulations. did not fall apart, and the public was protected in 17 18 much better ways. You guys as well, when I say, "you" I mean the Environmental Protection Agency, 19 20 both Illinois and United States EPA have raised 21 regulations. 22 Many of the industries have said, "Oh, We 23 can't meet them." They've always met them, and 24 they've done it well. Julie Morrison, our state

1 senator, came up here and said, "You have a tremendous obligation." I say the same thing. 2 You have an obligation to protect us, not 3 to find a way to issue a permit to a business. 4 5 have an obligation to protect us and our health. I would have to say if, in fact, the 6 7 Environmental Protection Agency in Illinois was 8 doing that, we wouldn't have all these people here 9 with all of the technical data saying, "We are afraid to drink the water, to go swimming, to let 10 our animals" -- I got several dogs that love to swim 11 in this lake, and have to worry about that. 12 13 You have a tremendous responsibility to protect us. We've elected the officials and have 14 15 appointed you to do that. So, please do that. 16 Protect us. If you need to, well, and you do need to, 17 18 raise the standards of that protection, so that we 19 can come here the next time and say, "Thank you. 20 Thank you for protecting us." 21 I wanted to add one more thing, and I say 22 this in a way to inspire and encourage you, not to 23 be the opposite. I function at a national level 24 with environment advocates, and I'm embarrassed when

I have to say from an environmental standpoint, that 1 2 I am from Illinois. 3 Because, unfortunately, the Illinois Environmental Protection Agency does not have, and 4 5 I'm saying this is true or not true, I'm just saying it does not have the best reputation nationally for 6 7 high standards and for enforcement of those standards. 8 And I would hope that in the near future, if what I'm saying has any impact on the agency and 10 on your own performance, that you will raise your 11 game and protect us as citizens, and essentially 12 13 what I would like to say is do your jobs. Thank you very much. 14 15 HEARING OFFICER STUDER: Thank you, Mr. Frank. 16 Catherine Mary Markey. My last name is spelled Markey, 17 MS. MARKEY: 18 M-a-r-k-e-y. Can you hear me? I'm a teacher. 19 taught in Waukegan, and I moved to California, and I 20 ran an environment book group. So, I've done my 21 homework. Okay? 22 I ran an environmental book group in Santa 23 Barbara Botanic Gardens, and I've read Bill 24 McKibben, Al Gore, Neal Wilson, John Moore, and am

many others, with people in Santa Barbara, 1 California, and like the man who spoke before me, I 2 did the opposite, though. 3 I defended the Environmental Protection 4 5 Agency against their criticisms that Illinois basically is a thumbs down on environment, and I 6 came to your defense and I said, "I've been a person who's lived near Lake Michigan for over 20 years. 8 9 My whole life I've spent within a mile of this shore line east and north Chicago. 10 I swim here now, now that I'm back here, I swim." Okay? 11 So, here is my little speech: This coal 12 13 plant is in my backyard. I look out of my house a block-and-a-half away from this coal plant, and it 14 15 is in my backyard. I can't go anywhere else and say, "This coal plant is not in my backyard." 16 It is in my backyard. It might not be in 17 18 your backyard, but it's in my backyard and a lot of 19 other people's backyards here. Do you want a coal 20 in your backyard? Okay. 21 I want to say that the evidence is out. I've read it. I've discussed it with people in 22 23 California. I've discussed it with people here. 24 Coal is the dirtiest form of energy, and you are

basically giving a nod approval to one of the 1 2 dirtiest forms of energy next to one of the largest 3 and only Great Lakes in the United States that we 4 can swim in. We can drink that water. We can sail 5 6 there, and we can use that lake. You are giving a 7 nod approval to a stinking coal plant. Okay? When I voted for Barack Obama, as a card-carrying 8 9 democrat, that I was going to get a clean energy initiative. 10 11 What is this? This is a missed opportunity to end coal, to end dirty coal, and to 12 start something new; and to clean up this lakefront 13 once and for all, this stinky polluted Waukegan 14 15 Harbor that everybody is disgusted by. Everywhere you go around Chicago, this town has a bad name 16 because of Waukegan Harbor. 17 18 Please, clean this up. Let's go green, and let's turn this situation around into a clean 19 20 energy initiative instead of renewing a permit for 21 an old stinky old coal plant. 22 HEARING OFFICER STUDER: Thank you, Ms. Markey. 23 Patrick Tufo. T-u-f-o is how it's spelled. 24 Tony Fuller.

Tony Fuller did you say? 1 MR. FULLER: HEARING OFFICER STUDER: For the record, it's 2 3 F-u-l-l-e-r. MR. FULLER: My name is Right. Thank you. 4 5 Tony Fuller. I live in Chicago. Actually, I live 6 right by Montrose Harbor, where there's lots of 7 fishing and lots of people who rely on the quality of the fish and the quality of the water that 8 9 supports the fish there. So, I'm coming to ask that the IEPA uses 10 11 its power to insure the best available technology is used to limit pollution, because once it's in the 12 13 lake, it's in the lake. You know, even with the water circulating, 14 15 as it does, the pollution tends to sit around for long periods of time and just concentrates. 16 So, also, I guess one question I had is in 17 18 terms of the amount of water discharge, is there a 19 reason why I guess from the studies, it looks like 20 it was from the permit one of the conditions is to 21 study the impact of the plume and do surveys on 22 that, is there a reason why that was not done before 23 this permit? 24 HEARING OFFICER STUDER: You're going to have

to speak up.

MR. LeCRONE: I was asking if he was talking about thermal conditions? The thermal relief grant was granted back in the '70s. It's been made part of this permit since that time.

So, now, if we are to re-justify or renew that type of relief, we're asking for a thermal demonstration to be done so we can have them study the fish species, the health of the lake, mixing for temperature, that sort of thing, to give us the best newest updated information going forward.

MR. FULLER: Thank you. My concern is that we should not just kick the can down the road, you know, continually. Degradation is not easy to recover from.

We need to take action as soon as possible. So, I encourage the IEPA to take action to protect all of us as quickly as possible. Thank you.

HEARING OFFICER STUDER: Thank you, Mr. Fuller.

MS. WILLIAMS: We agree with that, and that's why it's really important that this permit has some very rigid deadlines by which the different studies have to be conducted, so that we can be sure that we

1 get as much information in a timely manner. MR. FULLER: Thank you. 2 3 HEARING OFFICER STUDER: Bella Parra. Hello. My name is Bella Parra, 4 MS. PARRA: I'm here because I don't think 5 B-e-l-l-a P-a-r-r-a. 6 that it's right that all the animals in the water 7 don't get treated right because of the coal plants. 8 They get nothing that we get. 9 oxygen from the water, but they don't get to live in When they don't live in the water, they 10 the water. 11 I don't like that. I'm a big animal lover. die. If I win the lottery, I want to buy 55 dogs and 35 12 13 I just love animals. cats. I just don't think it's right of how the 14 15 animals in Lake Michigan are treated, and I don't 16 know, that's really all I have to say. HEARING OFFICER STUDER: Thank you, Bella. 17 18 appreciate your comments. Normally I say we don't 19 allow applause. I do make an exception at this one 20 time, if no one else in the room is offended. 21 Maria Race. 22 MS. RACE: Hi. Name is Maria Race, M-a-r-i-a 23 R-a-c-e. I'm with Midwest Generation. I just want 24 to make sure that a couple things that got mentioned were clarified.

Fly ash is the whiter ash that goes into our air pollution control equipment, and it is disposed dry. There are no fly ash ponds at Waukegan Station.

The mercury in the fly ash do not come into contact with the water, and they are not part of the wastewater discharge there. I just want to make sure that was clear.

The bottom ash wastewater is recycled and reused at the station. Any wastewater not recycled is treated before discharge in our wastewater treatment plant, and it consistently meets all of its permit limits.

And there is a wastewater treatment plant, which is an integral part of the Waukegan Station, and it treats wastewater before it's discharged into Lake Michigan, in order to make sure it does comply with all the permit limits.

The other thing is someone had mentioned earlier about the mercury monitoring that a different test that was used than is currently, that would currently be required with the next permit; however, the methodology, the difference in the

1 measurement, isn't that great. It goes right now -- the method that we're 2 3 using goes to 200 parts per trillion. The new method would go to one part per trillion. 4 So, the differential is two orders of magnitude. 5 So, you know, it is a question of whether 6 7 there are any detections in there. We're not 8 expecting there to be. Because as I was saying, 9 there's no mercury expected to be in that waste. That's all. 10 11 HEARING OFFICER STUDER: Thank you. I missed one. We have Nels, if I can say it, is it 12 Leutwiler? 13 MR. LEUTWILER: 14 Yes. 15 HEARING OFFICER STUDER: That is the last 16 person that has registered that they want to speak. Following Mr. Leutwiler, I will allow 17 18 those that maybe have comments that didn't so 19 indicate they want to speak to be given an 20 opportunity to do so; and then if time allows, we'll 21 come back to those that had additional questions. 22 Go ahead, Mr. Leutwiler. 23 MR. LEUTWILER: My name is Nels Leutwiler. 24 That's L-e-u-t-w-i-l-e-r. I'm here representing

myself and my family, and I also would like to thank you for allowing us this hearing and the opportunity to present our views.

I grew up in Lake Forest 12 miles -- my home was roughly 12 miles away from the plant. I currently live in Lake Bluff, which is about eight miles away right on the lake.

I spent my entire life swimming, boating, fishing and most importantly, bathing and drinking Lake Michigan water. I don't fish anymore because I can't eat the fish, and it kind of defeats the purpose.

I have a specific comment regarding

Condition 18, which requires monitoring of arsenic,

Zinc, cyanide, selenium and 12 other potentially

harmful substances; but it requires monitoring only

twice per year, and this seems really quite

inadequate.

But on a more general basis, my comments, the Midwest Gen rep who spoke initially, predictably noted that the plant employs 120 people. While I'm sensitive to jobs, this outdated plant should not get a free pass enabling it to threaten the health of millions of residents who drink the water and eat

fish in the lake.

And there are plenty of clean air safer alternatives to provide energy to this area. So, we don't have to be bending over backwards, and I implore you not to bend over backwards, to make it possible for this outdated coal-fired power plant to continue to operate in this area.

One final comment in response to what a woman just noted, I believe she's probably from the power plant, about coal ash. Although this is not a water thing, this is an air thing, I have many friends with boats in Waukegan Harbor right next door to the coal plant.

They spend their entire summer washing their boats repeatedly because they are covered with coal ash. Thank you for the opportunity.

HEARING OFFICER STUDER: I was just handed a card from someone that wants to speak. Barbara Klipp, are you here?

MS. KLIPP: Yes.

HEARING OFFICER STUDER: Again, that is the last card. After that, I will ask for a show of hands of those who have not spoken this evening, but maybe want to say something on the record. Come

1 forward. Thank you. MS. KLIPP: My name is Barbara Klipp, 2 3 K-l-i-p-p. I'm speaking today on behalf of the incinerator-free Lake County, but also as a private 4 5 citizen. That was my cute daughter that spoke today. 6 7 Something she said really touched me because she said people have the choice whether or 8 9 not to drink the water, and I suppose that's true for some people, but that's not a choice I think we 10 should have to make. 11 I think that clean and safe drinking water 12 not only is the law, but it shouldn't be our default 13 position. I don't think we should have to fight to 14 15 have our water be clean and safe to drink. shouldn't have to take our time tonight. 16 I think the polluters should have to fight 17 18 to pollute, and that should be our default position. 19 A couple things that are troubling me, while I 20 understand Clean Water Act and Clean Air Act are 21 different laws and different bureaus by definition, but to our health, there is no differentiation. 22 23 So, the mercury that we're breathing, for 24 example, the mercury we're drinking, there's a

cumulative effect for us, and our body does not make that distinction, and there seems to be kind of a loophole there.

With respect to the loopholes, Mrs. Owen talked about the loopholes in the regulation for coal plants. It came to my attention recently that coal plants are attributed to 70 percent of the water pollution and within, in all due respect, an underfunded EPA, and loopholes that are allowing them to emit more pollution than other industries.

That's very troubling to me, because I'm concerned about their ability to enforce the permits that are standing, let alone ones that are not. I'm also concerned about, did I understand correctly, that they had a water permit variance?

MS. WILLIAMS: What they're talking about there is a provision in the Clean Water Act that says that their thermal -- your permit for heat can differ -- sorry, the Section 315A of the Clean Water Act allows a facility to show that they can have a higher heat load, if they are able demonstrate that there will be no harm to the balance of the indigenous population of fish and wildlife in this case in Lake Michigan.

So, in the 1970s, Midwest Generation and then Com Ed came in and did studies that justified at heat loads based on a specific ETU rate that would protect the balance indigenous in Lake Michigan wildlife. That is what we're asking them in this next permit cycle to go back and re-justify that.

MS. KLIPP: Okay. Well, I'm concerned about the pattern I see here. It's my understanding the company is in bankruptcy, and I'm concerned that they are not operating with the best practices for pollution control, and that may be maximizing the profits to their creditors; but the burden really falls on the people that are breathing the air and water, in terms of health cost in increased pollution.

That's troubling to me. It's troubling to me as a mother just the quality of water my family is drinking. Also, I think a few people mentioned Lake Michigan is a tremendous resource. It is 90 percent right at the surface fresh water in the United States Great Lakes.

Lake Michigan is the second largest Great Lake by volume. With growing population, a static

that jumped out at me is that CMAC projection stated 1 2 the demand for Lake Michigan water is going to exceed the available supply by the year 2050. 3 So, with that kind of a precious resource, 4 5 I'm concerned we're not protecting it as well and 6 doing our due diligent as much as we could. 7 that's all. 8 HEARING OFFICER STUDER: Thank you. We 9 appreciate your comments. That concludes those that have registered. 10 11 Is there anyone here tonight that has not spoken that would like to make comments on the 12 13 record? We've got one, two, three, four. If those would stand up so I can get a count. One, two, 14 15 three, four. We'll go ahead. Did I miss some one in 16 the back? Okay, five. I will go ahead, and we'll 17 18 go with number one. If you would come forward, 19 please state your name and spell your last name, 20 since we don't have anything written in front of us. 21 MR. VILLALOBOS: Absolutely. I'll keep my 22 voice up. My name is David Villalobos 23 V-i-l-l-a-l-o-b-o-s. I just want to make a quick 24 comment. I've been listening all night. It's been

great information.

The thing that struck me that maybe I want to stand up and say something was the state representative stating that they are in compliance of the permits, and that's what this is all about is the permits.

So, we had the opportunity to strengthen that permit and make their compliance to be higher, because everybody, from what I understand, in this room is in agreement that it's not up to what it should be.

So, I thought we have the opportunity to make this more stringent for them so they can be within compliance, but also keeping our health in mind as well. So, I just want to make note of that.

That is what really struck my mind was the fact their argument is we are in compliance with the permit. So, let's keep it in compliance with the permits absolutely, but make it stronger and make a little bit more higher for our safety and health. That's all.

HEARING OFFICER STUDER: Thank you. Who was the second person? If you would come forward, please. Thank you.

My name is Mike Wagner. 1 MR. WAGNER: 2 I grew up on the lake here. resident. I worked on 3 one of the commercial fishing boats on this lake. HEARING OFFICER STUDER: Is it W-a-q-n-e-r? 4 MR. WAGNER: Yes, it is. 5 Dean, you made a 6 comment at the beginning of the night that through 7 the night that kind of concerned me is that the decision is going to be based more on the legal 8 9 ramifications of the permit than on emotions. I'm paraphrasing, but it was something 10 along those lines. I'm afraid and concerned that 11 people's impassioned pleas tonight are going to fall 12 on deaf ears because of that. 13 I looked liked at a number of things that 14 15 were available. I'm not pointing you out personally, Mr. LeCrone, but you made numerous 16 references to working with available data. 17 18 question is at what point do you determine that you 19 don't have enough data, and you're going to request 20 more? 21 MR. LeCRONE: We've done that in this permit. 22 We've done that in this permit, as an example, 23 Special Condition 18, which requires additional 24 monitoring for that list of metals.

We felt that more sampling data is necessary for us to make a better informed decision next time. So, that's just one example of something that is more stringent in this permit that wasn't in the last.

MR. WAGNER: That goes right along with what my next question is. I'm sorry I don't remember if it was Mr. Twait or Mr. Dunaway that made mention in regards to mercury contamination that we don't really know where it's coming from.

Why are you going to issue a permit until you know where it's coming from? Find out where it's coming from so that you know that you can put in the restrictions within the permit to stop it.

At this point, you don't know what Midwest Generation proved that it's not theirs, or you determine exactly where it's coming from.

MS. WILLIAMS: I think we confused two issues.

Mr. Dunaway did talk about issues of ground water

contamination for certain parameters, but mercury

was not part of that. We haven't had any detections

of mercury.

MR. DUNAWAY: That's correct. There's been no detection of mercury in the ground water monitoring

walls.

MR. WAGNER: Okay. Well, in regards to the ground water, at that point maybe I miswrote this at the time, but I could have swore that you said, I'll stand corrected, at this the point there was issues that we still didn't know where mercury contamination was coming from.

MS. WILLIAMS: One thing I think would just help a little bit to explain, I think it's been a very technical discussion that we had with Jessica, mercury is very dangerous.

It needs to be kept to very low levels, and so the levels that the regulations require for many years were lower than the technology to test for them could even achieve.

So, up until now, the data we've got from the company is there is no mercury at all, because the tests that they were using said, "We've gone as low as we can go and not found any." That is not low enough. They need to test lower.

That is what this permit is going to require give us information to find out there isn't any mercury at all.

MR. WAGNER: How often do you perform audits of

1 their data? MR. LeCRONE: Live audits? 2 I guess the question, without 3 MR. WAGNER: 4 trying to sound too cynical or whatever, we're 5 asking the bank robber to guard the bank, when you ask them to do their own testing and submit their 6 7 own information. How do you know how accurate that is, and 8 9 how often do you do a double check and just audit their information, to make sure that you are getting 10 11 the correct information? HEARING OFFICER STUDER: Are you asking how 12 often we collect samples from their effluent pipe 13 and have that tested? 14 15 MR. WAGNER: To compare to what they say 16 they're giving you, yes. MR. RABINS: The field office does that. 17 18 don't think any of us on the panel know exactly when 19 they go out. They do their own sampling. 20 MR. WAGNER: How often? 21 That's what I'm saying, we don't MR. RABINS: 22 have that information right here at the hearing, but 23 they do so self-report; and then the EPA personnel 24 will go out and do their own samples, and that's

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analyzed. You know, if the company is not sampling,
1
2
    and they are not analyzing, we are.
3
         MR. LeCRONE: We have compliance assurance
4
    section.
              Their job is to keep track of reported
5
    effluent discharge.
         MR. WAGNER:
                      Have there been reported
6
7
    differences between what they report and what your
    field staff has come up with?
8
9
         MR. RABINS:
                      We can look that up.
                      All right.
10
         MR. WAGNER:
                                   Thank you.
11
         HEARING OFFICER STUDER:
                                   Thank you.
                                               I think
    we're up to number three of the five.
12
                                            If you would
13
    go ahead and state your name, and spell your last
    name for the record, please.
14
15
         MS. MOSETICK:
                        My name is Sandy Mosetick
    M-o-s-e-t-i-c-k. I live in Vernon Hills.
                                                I came
16
17
    here just as a concerned citizen.
18
         HEARING OFFICER STUDER: Can we all hear in the
19
    back?
20
                         I have two questions.
         MS. MOSETICK:
21
    if the environmental or the Clean Water Act allows
22
    loopholes for existing coal plants, unless they
23
    rebuild to a certain degree, if they let them be
24
    grandfathered in under old laws, is that still true?
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1	Is there still that loophole; and if so,			
2	how far can you go with your new regulations to			
3	require tighter controls on emissions?			
4	Because just like someone else just			
5	mentioned, the lady from the power plant said that			
6	they are in compliance with their current permit,			
7	and so			
8	HEARING OFFICER STUDER: You mentioned the word			
9	"emissions," and emissions			
10	MS. MOSETICK: Well, whatever you call the			
11	water.			
12	HEARING OFFICER STUDER: The water discharge.			
13	MS. MOSETICK: The water discharge, right.			
14	HEARING OFFICER STUDER: Okay. Are there			
15	grandfathering clauses?			
16	MR. LeCRONE: No, I think you may be confusing			
17	some differences in the Clean Air Act Rules and			
18	Water Rules. There isn't anything specific about,			
19	that I'm aware of, about grandfather dates for			
20	upgrades on the water pollution side.			
21	MS. MOSETICK: Okay.			
22	MR. RABINS: There are new performance			
23	standards, if they're built after a certain date.			
24	MR. LeCRONE: Back when the rule was			

1 promulgated in '80 or '82. MS. MOSETICK: My basic question is: Are you 2 3 allowed, based on science and health standards, to set good standards to be the new standards for the 4 5 new permit to be as stringent as they need to be to protect the health of the communities? 6 7 MS. WILLIAMS: I don't know if I'm the best 8 person to answer, but there are two types of ways 9 you regulate water. One is the technology, which is the permit writers will look at each cycle as 10 11 whether they are meeting the technology requirements, and the other is Scott's job. 12 MR. TWAIT: We also look at the Water Quality 13 Standards, and they have to meet the Water Quality 14 15 Standards. 16 MS. MOSETICK: So --Regardless of technology, we 17 MS. WILLIAMS: 18 always have to insure compliance for discharge. 19 MS. MOSETICK: You can set as stringent as 20 standards as you are allowed to under, you know, 21 given the current technology for monitoring. You're 22 not limited on how strictly you can regulate them in 23 the new permit. 24 MR. RABINS: The legislature passes standards.

That is what we impose. We don't derive new numbers 1 2 each time. 3 But you are not limited to use MS. MOSETICK: 4 those standards that are passed. MR. RABINS: 5 We try and use the most stringent 6 standard. 7 MS. MOSETICK: Then my second question is: know other people were talking about the mercury in 8 9 the air getting into the water; and so I was wondering I knew that the water -- the Clean Water 10 11 Act regulates discharge into the water. Even if you can prove that it's being 12 discharged into the air and ending up in the water, 13 then why do you shut down the person who is talking 14 15 about tons of mercury coming from that very power plant and getting into the water? 16 So, who is protecting the water from that 17 18 discharge? 19 MR. LeCRONE: That would be covered by their 20 Clean Air Act permit, because it's an emission from 21 the combustion process. 22 MS. MOSETICK: But what if it's not being 23 covered by that? Why doesn't the Clean Water Act 24 use some kind of control? What's the difference

between pumping, you know, waste, solid or liquid 1 waste into a body of water, or pumping it into the 2 3 air, which then because of the laws of physics, is certainly going into the water? 4 That was my 5 question. 6 MS. WILLIAMS: It is a very good question. 7 MS. MOSETICK: Thank you. So, I think --8 MS. WILLIAMS: There are lawyers fighting over 9 that question. MS. MOSETICK: So, like, my final, like, 10 Okay. 11 little, it's not really a question about the Clean Water Act, but how do you -- how do we see the 12 13 answers to our questions when, you know, like, it's in the record? 14 15 Now, how do I go back and look and see how 16 you did you answer that question? MR. RABINS: We will send you a responsiveness 17 18 summary. 19 HEARING OFFICER STUDER: In the beginning, when 20 I went through the long opening statement, I said 21 there would be a responsiveness summary prepared; 22 and in that responsiveness summary, we go through 23 both the transcript and the written comments that 24 have been submitted in the record, take out the

1 issues and answer those issues. Normally, they are written in an issue 2 3 response type format, and that will be made available following the close of the comment period 4 and when a file decision is reached in this matter. 5 MS. MOSETICK: Thank you. 6 7 HEARING OFFICER STUDER: Thank you. I think we 8 are up to number four. I hate to reduce people to 9 being called by numbers, but I can't give the names. MR. DUBANIEWICZ: It's okay by me. 10 11 Dubaniewicz, D-u-b-a-n-i-e-w-i-c-z. Citizen of Libertyville, but I work in Waukegan. 12 13 Maybe many years ago, I worked in a brass mill, and we cleaned the brass with chemicals that 14 15 were called cleaning solution. It's a combination

I was just wondering, when looking through the Special Condition No. 16, it says here, "There shall be no discharge of complex metal-bearing waste streams and associated rinses from chemical metal cleaning, unless this permit has been modified to include the new discharge.

of nitric acid, sulphuric acid and hexavalent chrome

yeah, hexavalent chrome.

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Just a point of order, I'm just trying to

1 figure out what the complex metal bearing waste 2 streams are. If it's complex metal, does that mean 3 hexavalent chrome and waste streams? What I'm trying to relate is whether these waste streams are 4 5 the same as I used to encounter many years ago. MR. RABINS: Okay. So, chemical metal, they 6 7 clean equipment with chemicals or no chemicals, like the boilers, the boilers tubes; and if they use 8 9 chemicals, there's regulations for it. If they don't use chemicals, there's regulations for it. 10 11 So, they have not applied a requested 12 discharge chemical metal cleaning waste, so it's 13 probed in the permit. It's prohibited. It doesn't 14 allow that discharge of waste from that activity. MR. DUBANIEWICZ: 15 So, this permit does not 16 allow that discharge? 17 MR. RABINS: It doesn't allow chemical metal 18 cleaning waste. That's defined in the steam 19 electric generating regulations. So, there's a 20 specific definition of what that is. It's in there. 21 MR. DUBANIEWICZ: Okay. Am I incorrect 22 thinking that was hexavalent chrome? It says 23 complex metal-bearing waste streams. Do you happen 24 to know?

1 MR. RABINS: I don't know exactly. Like I 2 said, they use chemicals to clean the metal. 3 Do you know what type of metal it MR. LeCRONE: is being cleaned? There are copper tubes, alloys, 4 5 heat exchange boilers. MR. DUBANIEWICZ: As I said, it was a long time 6 7 ago, but it was a brass mill, and we cleaned tubes 8 and brass copper tubing. It started out as 9 oxidized, dip it into the tank, and it came out 10 clean. 11 Then you dipped it into another tank that The rinse tank went out to the 12 was a rinse tank. Back in the day, hexavalent chrome turned 13 river. the water orange in color; and after it's spent, 14 used several times, it turns green. 15 That's going from complex chrome to simple chrome. 16 That's the 17 process that goes on. 18 Well, over the years at this brass plant, 19 the effluent from the plant went right out to the 20 river, the Pequonneck River in Bridgeport, 21 Connecticut, and it turned the river orange, and the 22 river flowed out into Long Island Sound. 23 Well, the EPA got involved and decided to 24 clean -- force the company to build a water

treatment plant, so they did; and I operated that 1 water treatment plant, and checked all the results 2 3 of the cleaning. And it came out really clean water, but 4 5 the real test was whether or not the water coming out was drinkable. The president of the company had 6 7 me go out and get a glass of water and actually drink it. 8 9 So, my question really is: Where does the water that services the plant, does it come from 10 11 Lake Michigan, or does it come from bottled water or 12 something like that? The drinking water at the plant? 13 MR. LeCRONE: MR. RABINS: They withdraw the water from Lake 14 15 Michigan, okay, for everything. They withdraw their water from Lake Michigan for condenser cooling, 16 house service water, and boiler feed water. 17 18 MR. DUBANIEWICZ: Okay. So, they consider the 19 water that they expend out of the treatment plant as 20 being good enough to drink? I'm guessing. 21 I've never seen them make that MR. RABINS: 22 claim, and we haven't made that claim. 23 MR. DUBANIEWICZ: Okay. I would like to see a 24 test performed just to have the occupants of the

plant drink the water, that's all, that comes out of 1 2 the effluent. 3 HEARING OFFICER STUDER: We will put in the 4 responsiveness summary where their potable water 5 source is. MR. DUBANIEWICZ: Thank you. 6 7 HEARING OFFICER STUDER: Okay. We've gone through four. We've got a fifth person that had 8 9 indicated they wanted to speak and hadn't 10 registered. Yes? 11 MS. ORTIZ: Good evening, everyone. My name is Dulce Cany Ortiz, D as in David, u-l-c-e, Candy, 12 13 C-a-n-d-y, Ortiz, O-r-t, as Tom, i-z. So, first off, I just want to thank you 14 15 for coming today, and listening to the residents of the City of Waukegan. I, myself, am a resident; and 16 I'm here not as an expert, not as someone that 17 18 belongs to the Sierra Club, I'm here as a mom. 19 I have an 11-year-old son. His name is 20 Ivan Ortiz, and he plays football and basketball and 21 boxing; and the reason I'm here is because 22 everything that I do for my community, everything that I hold dear and near to my heart is because of 23 24 him, because I want to make sure that when I do

leave this earth, that he has, you know, a great environment, a beautiful city to live in, and the city of Waukegan is a very beautiful city.

I mean, I am in love with it, and we have a great lakefront, and I just want to make sure that as Senator Morrison stated, that you do your job to protect us, you know, the public.

I just want to end with this, you know, make sure when you do make your decision, you not only think about your children, but you think about your children's children; and after you make that decision, that you're able to sleep at night, and that there's peace in your heart and in your mind. Thank you.

HEARING OFFICER STUDER: Thank you. Is there anyone in the room that has not spoken this evening that would like to make comments on the record?

Okay. Let the record indicate no one raised their hand.

We have two people that have spoken earlier that have additional questions or comments, Jessica and Cindy. Is there anyone else that has spoken earlier that has additional comments? We got one, two, three, four, five.

I'm going to put a time limit of about 12 1 minutes max on the remaining four people that spoke, 2 3 and then we will adjourn the hearing after those four people have been allowed to make comments. 4 5 It was Jim, and what was your name, sir? MR. CRAIG: I'm Evan. That's Jim there. 6 7 HEARING OFFICER STUDER: That's Jim, okay. 8 Yes. We'll start with Cindy. 9 MS. SKRUKRUD: Thank you. I think I can be My first question is: 10 fairly quick. What type of 11 waste water treatment is applied to the effluent from the ash ponds before discharge? 12 I ask this question because Ms. Race said 13 there was a wastewater treatment plant at the plant, 14 15 but in the IEPA's 2011 Compliance and Evaluation Inspection Report, they say this about the treatment 16 plant, quote, "The treatment plant consists of a 17 18 wastewater equalization tank, flash mixed tank, two 19 clarifiers with alum and polymer addition 20 capabilities, metal cleaning unit sledge 21 equalization tanks and vacuum filters." 22 And then they go on to say, "The only 23 units that have been in use the past several years are the clarifiers primarily for settling." 24

My question is: 1 Does the treatment 2 consist solely of settling clarifiers? 3 No, it more represented what you MR. RABINS: 4 read first, your initial statement. 5 MS. SKRUKRUD: According to the IEPA's 6 inspection, that is not all those key parts of the 7 wastewater plant are not being used. My next question is: Have any studies 8 9 been conducted regarding the hydrologic connection between the ground water affected by the site and 10 11 Lake Michigan and/or other surface waters? No, there hasn't. 12 MR.DUNAWAY: MS. SKRUKRUD: Okay, thank you. 13 Then my last questions are about the coal pile. In the draft 14 15 permit released in December 2011, mercury monitoring put a limit on total suspended solids was placed on 16 the one million gallon per day coal pile runoff. 17 18 Why was that condition removed from the 19 latest draft permit? 20 Because the coal pile runoff MR. RABINS: 21 reports the wastewater treatment plant, which limits 22 solids, so it didn't make sense to make a limit 23 prior to treating it. 24 MS. SKRUKRUD: So, in my mind, one Okay.

million gallons per day is a lot of water. 1 2 there dry weather discharges coming off of the coal 3 pile? The 2011 inspection says the coal piles 4 5 are sprayed with a protective crust. So, is part of the runoff from the coal pile because they are 6 7 spraying it? They informed us that there are no 8 MR. RABINS: 9 dry weather discharge from the coal pile. That is what we have from them. 10 11 MS. SKRUKRUD: Okay, thank you. But I still think a million gallons per day is a lot of water, 12 and Illinois is an agricultural state. We know how 13 to build very big silos. You see them all 14 15 throughout central Illinois. So, we can save that million gallons a day 16 of polluted coal pile runoff that goes into Lake 17 18 Michigan, if you were to require them to store their 19 coal in silos. That would also solve the problem of 20 any coal dust that impacts the community and the 21 lake. And that's it for me. Thank you. 22 HEARING OFFICER STUDER: Thank you, Cindy. Jessica? 23 24 I'm going to ask a couple more MS. DEXTER:

questions about coal piles, just to follow up on 1 2 what Cindy said. There are coal piles you say. 3 close are they to Lake Michigan, or the canal that is hydrologically connected to Lake Michigan, do you 4 5 know? MR. RABINS: I have to look that up. 6 Is it possible for coal to bypass 7 MS. DEXTER: the permitted outfall and discharge coal directly 8 9 into the lake or the canal? MR. RABINS: I'll have to get back to you. 10 11 MS. DEXTER: I'll note that as I was going through documents, I found that there was an 12 incident in 2009 you might want to look at where the 13 facility discharged 90,000 cubic yards of coal into 14 15 the canal after a storm. I would appreciate it if you would look 16 into what practices can be implemented and put in 17 18 the permit to make sure that there is containment 19 and prevent that kind of discharge in the future 20 that is an illegal discharge outside the outfall. 21 To answer your earlier question, MR. RABINS: 22 they said all runoff is collected in the stations 23 and treated prior to discharge. There is no bypass 24 or conversion around the wastewater treatment plant

1 that we're aware of. The other incident was in 2009? MR. LeCRONE: 2 3 MS. DEXTER: 2009, there is an inspection 4 report that I found in the FOIA request. It seemed like a very large discharge of actual coal into the 5 6 I think there should be some conditions in water. 7 the permit to prevent that from happening in the future. 8 9 I'm also going to get back to the chemical metal cleaning waste issue. This is probably more 10 11 of a statement at this point. You talked about it a few minutes ago. 12 As I understand it, Midwest Generation has 13 withdrawn its prior request to discharge chemical 14 15 metal cleaning waste under this NPDES permit, but the draft permit still references -- the draft 16 permit and the fact sheets in various places still 17 18 references chemical metal cleaning waste. 19 I hope you'll take a look at that and 20 review the recommendations to the chemical metal 21 cleaning waste that are still in the 2003 draft 22 permit. 23 I'm going to move on to a question about 24 PCBs. This segment of Lake Michigan is identified

as imperative for PCBs. Are there transformers 1 2 containing PCBs on the site; and if so, do you know 3 how they are stored? MR. RABINS: There's a statement of fact sheet. 4 5 It says there are four PCBs transformers at the 6 facility, each located inside a secured and covered 7 building constructed with its own secondary containment system and located at least 1,000 feet 8 9 from the nearest outdoor open renovation. We do prohibit the discharge of PCBs in 10 permit as required by federal regulations, and so 11 it's prohibited at this point. 12 MS. DEXTER: Do you know whether transformer 13 oil contains PCBs? Is that part of what the 14 15 transformers contain? 16 MR. LeCRONE: Yes, transformer oil is contained in that. 17 18 UNKOWN SPEAKER: I'm sorry, what was that 19 answer? 20 Yes, the oil does contain PCBs. MR. RABINS: 21 I just want to point out on the MS. DEXTER: 22 record in 1998, there was a fire that resulted in 23 12,000 -- sorry, 1200 gallons of transformer oil 24 being discharged into the canal, and I ask you to

```
1
    take a look at whether the secondary treatment
2
    facility or secondary -- I'm sorry, secondary
 3
    containment that is around these right now is
    adequate to prevent that kind of discharge if
 4
    there's a fire or other accident in that building.
5
              Can you explain why the monthly average
 6
7
    effluent limitation for copper on outfall G1 changed
    from .5 milligrams per liter in the 2011 permit, to
8
9
    1 milligram per liter the 2013 draft permit?
         MR. RABINS:
                       You said G2?
10
11
         MS. DEXTER:
                       G1.
         MR. RABINS:
                      G1 restricts or limits the
12
    discharge to the federal limitations for steam
13
    electric generating facilities.
                                      That waste stream
14
15
    G01 also reports, which is non-chemical metical
    waste, also reports the wastewater treatment plant
16
    and is further treated after that monitoring point.
17
18
         MS. DEXTER:
                       Which is the monthly average under
19
    the federal guidelines, is it the .5 or 1?
20
         MR. RABINS:
                       It's 1 for the monthly average.
21
    milligram per liter monthly average, and 1 milligram
22
    per liter stated max.
23
         MS. DEXTER:
                      Do you know how the .5 milligrams
24
    per liter got in the 2011 permit, its draft?
```

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The draft permit?
1
         MR. RABINS:
         MS. DEXTER:
2
                       Yes.
 3
         MR. RABINS:
                            That is the state effluent
                       No.
 4
    standard.
                       Has Midwest Generation indicated
5
         MS. DEXTER:
6
    that it's unable to meet PH limits in outfall 1?
                       Yes, they've requested a
 7
         MR. RABINS:
    compliance schedule.
                           The limits were reduced in
8
9
    this I think with the water outfall standard.
                                                     It is
    restricted 7.0 to 9.0 in standard units.
10
              We proposed -- they have requested
11
    compliance scheduling so we have proposed in the
12
    permit that they get 12 months to meet that limit,
13
    if they submit a file construction permit
14
15
    application for wastewater treatment estimate for
16
    PH.
               They're only going to get it if they need
17
18
         So, if they don't file it -- if they don't come
    forward with an application for what they are going
19
20
    to do to meet it, they don't get the schedule.
21
                      How does one normally treat for
         MS. DEXTER:
22
    PH, what's the process?
23
         MR. LeCRONE:
                        Chemical addition, either an acid
24
    base to neutralize the PH.
```

CO2 has also been used in some 1 MR. RABINS: facilities. 2 3 MS. DEXTER: Is it a particularly difficult 4 chemical to treat for? Chemical is maybe not the 5 right word. MR. LeCRONE: It's not technically difficult. 6 7 It's difficult in terms of factor how much water 8 you're having to adjust. 9 MR. RABINS: Let me also add, if they have to install equipment, then you are not going to have it 10 on site when it's signed. They would need some time 11 It is not just a matter of them going 12 to do that. 13 and doing it, if they have to install an injector systems. 14 15 MS. DEXTER: What is the basis of IEPA's determination as stated in Special Condition 14 that 16 the effluent limits on outfall 001 constitute 17 18 BAT/BCT for storm water? 19 We say this when they are treating MR. RABINS: 20 storm water as if it was processed water. 21 alternate is if they don't treat their storm water 22 so it overflows, or it just runs off, they would 23 have a storm water pollution prevention plan. 24 In this case, they are treating all their

```
water.
            They are meeting effluent limits for it.
1
    So, this is a more stringent requirement than having
2
 3
    them develop a prevention plan.
         MS. DEXTER:
                       So, all storm water on site is
 4
5
    treated at the wastewater treatment plant?
6
         MR. RABINS:
                       That's the information we have.
7
         MS. DEXTER:
                      Do you know what treatment those
8
    discharges receive?
9
         MR. RABINS:
                      Well, it says, I mean, settling
    and oil removal.
10
11
         HEARING OFFICER STUDER: How many more
12
    questions do you have?
                       I think just one.
13
         MS. DEXTER:
                                          I'm actually
    not sure if Cindy covered this. Can you explain why
14
15
    the proposed internal outfall HO1 for coal panel
    discharges was eliminated in this version of the
16
    draft permit?
17
18
         MR. RABINS:
                      We did that because the coal power
19
    runoff reports the wastewater treatment system,
20
    which treats for solids. So, it didn't make much
21
    sense to say, "You have to meet a solid limit prior
22
    to going to the wastewater treatment system." So,
23
    we removed it.
24
                       And then I just want to confirm
         MS. DEXTER:
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```
that the comments we filed January 2012 on the 2011
1
2
    draft permit will still be part of this record for
 3
    the permit issuance?
         HEARING OFFICER STUDER:
 4
                                   What was your
5
    question?
         MS. DEXTER:
                      Whether or not the comments that
6
7
    -- we've now filed two sets of comments on these
    things, and I referenced the prior comments in my
8
9
    earlier comments.
                       I just want to make sure they are
    all part of the same record.
10
11
         HEARING OFFICER STUDER:
                                   The first time they
    met with public notice where the hearing was also
12
13
    requested, yes, those are part of the record.
         MS. DEXTER:
                       I just want to make sure, or I'll
14
15
    send them again.
         HEARING OFFICER STUDER: It's an exhibit in
16
17
    this record.
18
         MS. DEXTER:
                       Thank you so much.
19
         HEARING OFFICER STUDER:
                                   Thank you.
20
         MR. CRAIG:
                      This is Evan again, Craig,
21
                So, I kind of like to pick up where I
    C-r-a-i-g.
22
    left off. I'm curious about the mercury monitoring.
23
              The answer that you gave me that you
24
    intend to issue a permit that is both perspective
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and precautionary is troubling that you're going to 1 2 do experimental chemistry on Lake Michigan is 3 troubling, and it has been troubling. So, I'm just wondering at the beginning 4 there were many laws cited. Is there a law that 5 supports that by the Illinois EPA to approve permits 6 7 that may impair or continue our waters to be 8 impaired? Is that legal? 9 MS. WILLIAMS: I don't think anyone said that. I think you are mischaracterizing what I was trying 10 11 to say was just maybe that was said by Darin, we do the best we can with the information was we have; 12 and then we also go back afterwards and review new 13 information, to make sure those earlier decisions 14 15 were accurate. 16 I don't think anyone up here suggests we're doing chemical experiments on Lake Michigan. 17 18 MR. CRAIG: And in the absence of data -- I'm 19 sorry. 20 I was going to say the law MS. WILLIAMS: 21 requires to issue a permit if the applicant 22 demonstrates they meet the statute. That is our 23 obligation, and it's part of this analysis to see if

24

that's been met.

Okay. Maybe that's why we heard a 1 MR. CRAIG: 2 lot of comments about what part of the law protects 3 Because that's why I'm asking, you know, where is the precautionary posture from the Agency that 4 5 says we can go beyond the requirements to protect the public? Where is the precautionary? 6 7 Is that discretion? Does that happen? Is 8 it a requirement in the law, or do we have to pass 9 new laws? MR. TWAIT: The Water Quality Standards have a 10 safety factor built into them; and, so, that's where 11 12 a precautionary instance is. The new ones or the old ones? 13 MR. CRAIG: MR. TWAIT: All of our Water Quality Standards. 14 15 MR. CRAIG: Because the newest ones just came 16 out and said the old ones weren't stringent enough. MR. TWAIT: When you have Water Quality 17 18 Standards, you base those on the information that 19 you have and use a safety factor. 20 MR. CRAIG: Okay. 21 So, as new information comes about, MR. TWAIT: 22 we change that when it's necessary. 23 MR. CRAIG: I wasn't trying to twist your 24 words. You said you used Both. So, I was trying to

1 understand that. Okay. I think you understand while you didn't 2 3 use a big enough safety margin because now U.S. EPA is saying we have need to tighten them up. 4 5 MS. WILLIAMS: There is no new Water Quality 6 Standards that we're talking about. He's talking of the Lake Michigan standards are the same. 7 8 MR. CRAIG: I'm not an expert on that, but I 9 thought these restrictions on pollutants were being 10 tightened up. Maybe I'm wrong. There is a difference between 11 MR. LeCRONE: Water Quality Standards and Technology Standards, 12 and what U.S. EPA is updating is our Technology Base 13 effluent Limitation Guidelines, which is different 14 than any extreme Water Quality Standard. 15 There is two different sets of standards, 16 actually three, State Water Quality Standards, State 17 18 Technology Based effluent Limits and then Federal 19 Categorical Standards that we consider from a 20 facility like this, and we apply the more stringent 21 of the three standards. That's what goes into determining a permit limit. 22 23 MR. CRAIG: Thank you. That helps clarify

that, I think, except you are not enforcing

24

available control technology on this plant. So, that doesn't -- anyhow.

The other thing I wanted to ask you, and point out is that I think that Midwest Generation has requested a new permit several times from the Illinois EPA and the Illinois EPA has not granted a new permit; is that correct? I thought they've been operating without a permit.

MR. LeCRONE: They're operating under a permit that expired in 2005, I believe, and has been administratively continued since that point. That's a process that is allowed under the regulations if they file a timely reapplication. It has been in the works for several years, that's true.

MR. CRAIG: Okay. So, I know we're not supposed to talk about air pollution, but we are -- they have promised to install more air pollution control equipment I think by 2014. The conservation of fill law says that whenever you get one thing cleaner, you get another thing dirtier, and you don't necessarily get the first thing clean.

The thing that is going to get dirtier, when they clean up the air, is the water. So, I wonder whether you're going to revisit this permit

when they finished those controls, or does this go on for another five years or something beyond that?

MR. RABINS: If they wanted the discharge scrubber wastewater, they're going to have to seek a permit modification. They'll go through the same draft permit, and there will be a public notice opportunity for comment.

People can request a hearing if they want, and we'll take it under consideration. There's not going to be -- it won't just be added without any public presentation.

MR. LeCRONE: That would apply to any new waste stream they propose to discharge, whether it be air emission control, or some other process that will result in new air stream or increased loading that is not currently permitted. It would require a modification of the permit, and it would go through the same public notice process that Jaime used.

MR. RABINS: I was also going to say when you said they weren't subject to the best available technology. There is best technology available limits, and they are being held to those standards for steam electric generator facilities.

MR. CRAIG: As of 2013 or as of 1984, whatever

1 it was? MR. RABINS: It was when they passed the 2 3 effluent quideline. It is not a yearly -- you know, they don't revisit it every year. I think it was 4 5 last done in '82. 6 MR. LeCRONE: I believe that is right. 7 MR. RABINS: Those are the best available technology numbers, and they are being held to them. 8 9 This permit requires compliance with those numbers. Well, that's interesting, since 10 MR. CRAIG: 11 they're not doing them, it seems that they can do better then. 12 Okay. So, the last thing I wanted to ask you 13 about is this business of monitoring because I don't 14 15 know the letter in detail of the proposed permit, but I think I understand that they are going to be 16 doing grab sampling and testing for mercury twice a 17 18 year. 19 MR. RABINS: At 001, they have one discharge 20 point at 001. They are going to have to monitor 21 mercury once a month for a year, and that's going to 22 go quarterly thereafter. 23 Yes, once a quarter. They're going do 24 quarterly thereafter. We need 10 to 12 to do a

reasonable potential analysis. We're going to have enough data after about a year.

MR. CRAIG: In my mind, you know, I go out and I sample streams, and one day the stream looks like chocolate milk because they build a Wal-Mart. The next week things have improved a bit, and it gets clear enough that a fish might live in it.

So, I just wonder who's going to choose the timing of these grab samples, or is this going to be a sample when the plant is running on low or on high, or after we've had rain, or when they are operating the full treatment plant?

It seems there are so many variables; and, so, then you can give me more assurance that's it's going a representative sample. It seems like continuous monitoring isn't too much to ask here.

MR. RABINS: They can't do a composite for the mercury sample to test it.

MR. LeCRONE: Continuous monitoring for mercury is not technically feasible. It is a complicated lab procedure because it's such a sensitive test method. There are a limited number of labs that perform the test. It's a difficult process with very specific sample collection procedures.

So, it's not something like PH or residual 1 2 chlorine, or something they could have a continuous 3 analyzer to analyze that in that manner. It has to be by grab sample with very specific collection 4 processes and sent to a lab for a very complicated 5 analytic procedure. 6 HEARING OFFICER STUDER: We've come close to 7 8 going to the time limit also. 9 MR. CRAIG: Thank you very much. HEARING OFFICER STUDER: The last person was 10 11 Jim Bland. Following Mr. Bland, we'll be adjourning this hearing. 12 MR. BLAND: A simple question. Given the fact 13 that they are doing dry processing of fly ash and 14 15 mercury residual, can we presume there is a permit for that? 16 We have to get back to you on 17 MS. WILLIAMS: 18 that. We have to talk to a manager with that to 19 see. 20 Again, if it's a dry process, and MR. BLAND: 21 they store it on site for, what, longer than six months, then they've got a RCRA requirement. 22 23 Taking a look at the permits they have, I 24 haven't seen any acknowledgment of that. One last

1 comment is apart from the analytic problems of 2 testing for mercury, you also have a field problem 3 for testing for mercury. I'll encourage people to take a look at 4 the website for USGS, which specializes in all 5 6 business of dealing with nanogram types of samples 7 for mercury. It means going out in clean suits, specialized boats, specialized equipment is required 8 9 in order to be able to do that. So, it's a requirement for the analytic 10 11 test, but there is no requirement for the ambient I would encourage you to include that. 12 monitoring. When I write up my comments, I'll include that with 13 that. 14 15 HEARING OFFICER STUDER: Very good. I thank everyone for their attendance here tonight. 16 all been very patient. 17 18 I advise everyone the comment period is 19 open until the 30th of August. We'll be accepting 20 written comments until that time. This hearing is 21 adjourned. 22 (WHICH WERE ALL THE PROCEEDINGS HAD.) 23 24

1	STATE OF ILLINOIS )
2	) SS: COUNTY OF C O O K )
3	
4	PAMELA A. MARZULLO, C.S.R., being first duly sworn,
5	says that she is a court reporter doing business in the city
6	of Chicago; that she reported in shorthand the proceedings
7	had at the Proceedings of said cause; that the foregoing is
8	a true and correct transcript of her shorthand notes, so
9	taken as aforesaid, and contains all the proceedings of said
10	hearing.
11	PAMELA A. MARZULLO
12	License No. 084-001624
13	
14	SUBSCRIBED AND SWORN TO before me this 14th day
15	of August, 2013.
16	Notary Public
17	
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	19276 (1)	3,070-acre (1)	
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	- 1970s (1)	3.1 (1)	
illinoisgov (1)	102: 1	72:24	7.0 (1)
	1978 (3)	30 (5)	
11:14	` '	` '	127:10
	63:12;64: 4;65: 6	30: 6;43:17;52: 2;78:12;	70 (2)
0	1979 (1)	86: 5	55: 1;101: 7
	30: 5	302.105 (1)	70s (1)
0.0 (1)	1982 (1)	4:18	
02 (1)	43:11		94: 4
74:11		309.115 (1)	75 (1)
1 (6)	1984 (1)	8:10	63:15
70:10;72: 5, 8;128:17;	135:24	309.119 (1)	<b>76</b> (1)
	1985 (2)	8:10	
136:19,20	38:21;43:12	30th (5)	63:16
1	1998 (1)	10: 5, 7;12:10;15: 2;	8
	125:22	139:19	
	1999 (1)	31 (1)	9 (1)
6)	21: 6	12:11	8 (1)
126: 9,19,20,20,21;127: 6	21. 0		24: 3
00 (3)		315A (1)	8,000,000 (1)
30:17;65:13;125: 8	2	101:19	42:19
		31st (2)	
2(1)	2 (7)	1: 4,13	8.3 (1)
29:21			53:13
3 (2)	60: 9;66:22;73:10,15,21,	35 (5)	80 (1)
73: 1, 7	24;74: 1	4:17;7: 5;8: 5, 9;95:12	111: 1
6(1)	2,000 (1)	39 (1)	82 (2)
	55: 6	6:10	
76:24		0.10	111: 1;136: 5
(1)	2,000,000 (1)	4	8th (1)
136:24	33:19	4	60: 9
21 (1)	20 (2)		
	82: 7;91: 8	41 (1)	9
10:22	200 (2)	80:15	9
(2)			
45:13;75:12	33:18;97: 3	415 (1)	9.0 (1)
-year-old (1)	2003 (1)	6:11	127:10
	124:21		
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(7)		3	53: 1;102:21
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	21:18;77: 5	71: 4;126: 8,19,23	- 1
,000 (1)	2009 (3)	5.2 (3)	90-percent (1)
125:23			75: 4
0 (2)	123:13;124: 2, 3	29:13;30: 7;54:16	95 (1)
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00 (1)	34:18;79:14	6:11	98 (1)
	2011 (13)	50 (2)	
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